

CITY OF RAMSEY

AUTUMN HEIGHTS STREET RECONSTRUCTIONS

CITY IMPROVEMENT PROJECT NO. 22-02

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

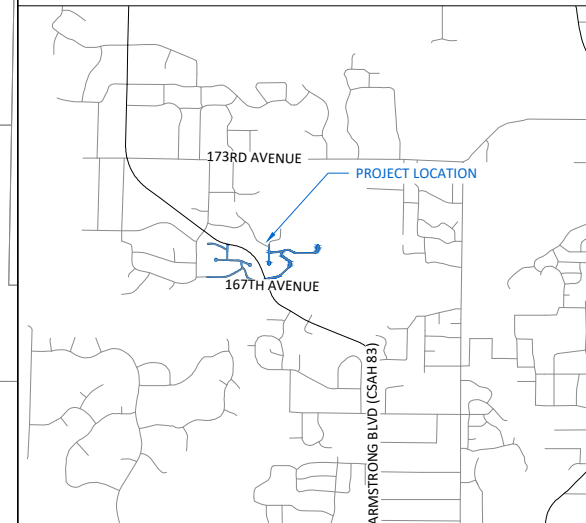
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

SHEET INDEX

THIS PLAN CONTAINS 60 SHEETS

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03	DETAILS
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LOCATION MAP



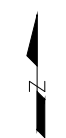
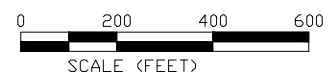
LEGEND

	SANITARY MANHOLE		Easement - Drainage & Utility
	STORM SEWER MANHOLE		Easement - Roadway
	CATCH BASIN MANHOLE		LOT LINE
	CATCH BASIN		ELECTRIC LINE
	CATCH BASIN - GROUT		ELECTRIC LINE - BURIED
	CATCH BASIN - RESET		ELECTRIC LINE - OVERHEAD
	FLARED END SECTION		GAS LINE
	CULVERT END SECTION		TELECOMMUNICATION LINE
	HYDRANT		TELECOMM - OVERHEAD
	VALVE		FIBER OPTIC LINE
	TREE - CONIFEROUS		TREE LINE
	TREE - DECIDUOUS		LANDSCAPE
	SHRUB		RETAINING WALL
	LIGHT POLE		FENCE
	SIGN		SILT FENCE
	MAILBOX		WATERMAIN
	PEDESTAL - TELECOM		SANITARY SEWER
	PEDESTAL - ELECTRIC		STORM SEWER
	HAND HOLE		DRAIN TILE
	DRIVE - BITUMINOUS		LANDSCAPE - ROCK
	DRIVE - CONCRETE		LANDSCAPE - MULCH
	DRIVE - GRAVEL		LANDSCAPE - RIP RAP
	CONCRETE WALK		PR. DRIVE - BITUMINOUS
	BITUMINOUS TRAIL		PR. DRIVE - CONCRETE
	REMOVE BIT PAVE		PR. DRIVE - GRAVEL
	REMOVE CONCRETE PAVE		PR. CONCRETE WALK
	REMOVE GRAVEL SURFACE		PR. CONCRETE
	MILL BIT PAVEMENT		PR. SEEDING AREA
	RECLAIM BIT PAVEMENT		

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.


 JOE FERIANCEK, P.E. 57095 DATE 7/7/22
 CIVIL ENGINEER II LIC. NO.

DATE	REVISION
7/20/22	ADDITIONAL CULVERT REPLACEMENTS



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL 1-800-252-1166 OR 651-454-0002



Call before you dig
 811
 651 454-0002 Metro
 800 252-1166 Outstate
www.gopherstateonecall.org

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IP 22-02 AUTUMN HEIGHTS STREET RECONSTRUCTIONS

STATEMENT OF ESTIMATED QUANTITIES

Item No.	MnDOT No.	Note	Item Description	Unit	Quantity
1	2021.501		MOBILIZATION	LS	1
2	2101.502	1	CLEARING TREE	EA	13
3	2101.502	1	GRUBBING TREE	EA	13
4	2101.503	1	REMOVE CULVERT	LF	519
5	2104.503	1	SAWING BITUMINOUS PAVEMENT - FULL DEPTH	LF	1082
6	2104.503	1	SAWING CONCRETE PAVEMENT - FULL DEPTH	LF	290
7	2104.504	1	REMOVE CONCRETE PAVEMENT - DRIVEWAYS	SY	128
8	2104.504	1	REMOVE BITUMINOUS PAVEMENT - DRIVEWAYS	SY	329
9	2104.504	1	REMOVE BITUMINOUS PAVEMENT - ROADWAYS	SY	1852
10	2104.504	1	REMOVE GRAVEL SURFACE - DRIVEWAYS	SY	68
11	2104.502	14	SALVAGE AND INSTALL MAIL BOX SUPPORT	EA	24
12	2540.602		TEMPORARY MAIL BOX CLUSTER	EA	2
13	2105.607		COMMON EXCAVATION (EV)	CY	695
14	2105.607	2	SUBGRADE EXCAVATION, REMOVE UNSUITABLE MATERIALS (EV)	CY	1213
15	2106.607	2, 10	HAUL & STOCKPILE RECLAIM MATERIAL (LV)	CY	1540
16	2106.507	2	SELECT GRANULAR BORROW (CV)	CY	1213
17	2112.519	11	SUBGRADE PREPARATION	RDST	6
18	2130.523		WATER	MGAL	225
19	2211.507	2	AGGREGATE BASE CLASS 5 - MODIFIED (CV)	CY	380
20	2215.504	10, 11	FULL DEPTH RECLAMATION	SY	22995
21	2105.507		GEOTEXTILE FABRIC TYPE 4	SY	109
22	2108.504		GEOTEXTILE FABRIC TYPE 5	SY	1819
23	2232.504		MILL BITUMINOUS PAVEMENT (2.0")	SY	28
24	2357.506	4	BITUMINOUS MATERIAL FOR TACK COAT	GAL	790
25	2360.509	5	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,C)	TON	1339
26	2360.509	5	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	2831
27	2360.509	5	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) 2.5" TRAIL	TON	2
28	2360.509	5	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) DRIVEWAYS	TON	35
29	2501.503	15	15" CS PIPE CULVERT	LF	27
30	2501.503	15	15" RC PIPE SEWER DESIGN 3006 CLASS III	LF	427
31	2501.503	15	18" RC PIPE SEWER DESIGN 3006 CLASS III	LF	95
32	2502.503		4" PERF PVC PIPE DRAIN	LF	437
33	2501.502		15" CS PIPE APRON	EA	2
34	2501.502		15" RC PIPE APRON	EA	18
35	2501.502		18" RC PIPE APRON	EA	4
36	2502.502		4" PRECAST CONCRETE HEADWALL	EA	1
37	2531.503		CONCRETE CURB & GUTTER DESIGN B418	LF	718
38	2531.504		6" CONCRETE PAVEMENT DRIVEWAY	SY	151
39	2531.504		GRAVEL SURFACE	SY	25
40	2575.602	13	LANDSCAPE RESTORATION	EA	26
41	2563.601	9	TRAFFIC CONTROL	LS	1
42	2573.502		STORM DRAIN INLET PROTECTION - CULVERT	EA	24
43	2573.503		SEDIMENT CONTROL LOG TYPE STRAW	LF	2580
44	2573.503		SILT FENCE, TYPE MS	LF	3445
45	2573.501		STABILIZED CONSTRUCTION EXIT	EA	1
46	2574.507	3, 12	TOPSOIL (LV)	CY	821
47	2574.508	6	FERTILIZER TYPE 3	LBS	175
48	2511.509		RANDOM RIPRAP CLASS III	CY	26
49	2575.505		SEEDING	ACRE	1.43
50	2575.508	8	HYDRAULIC MATRIX TYPE MULCH	LBS	5720
51	2575.508	7	SEED MIXTURE 25-151	LBS	145

PAY ITEM NOTES:


- REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
- LV TO CV CONVERSION FACTOR = 1.25.
- LV TO CV CONCERSION FACTOR = 1.30.
- ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 0.07 GAL/SY.
- ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 113 LB/SY-IN.
- ESTIMATED QUANTITY BASED ON 100 LB/ACRE.
- ESTIMATED QUANTITY BASED ON 120 LB/ACRE.
- ESTIMATED QUANTITY BASED ON 4000 LB/ACRE.
- LUMP SUM QUANTITY SHALL INCLUDE ALL COST REQUIRED FOR MAINTAINING ALL FLAGGING OPERATIONS AS NECESSARY, MAINTAINING PEDESTRIAN ACCESS ROUTES, ANY SIGNAGE AND BARRICADES AS NECESSARY.
- EXCESS RECLAMATION MATERIAL SHALL BE HAULED FROM THE ONSITE STOCKPILE LOCATION TO THE CITY OF RAMSEY PUBLIC WORKS CAMPUS, 14100 JASPER STREET. THE EXPECTED RECLAMATION DEPTH IS 7 INCHES.
- SHAPING OF RECLAMATION MATERIAL TO PROFILE AND CROSS SLOPES MATCHING THE PLANS IS INCIDENTAL TO THE FULL-DEPTH RECLAMATION PAY ITEM.
- STOCKPILING OF ANY SALVAGED TOPSOIL USED IS INCIDENTAL TO THE TOPSOIL PAY ITEM.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL LANDSCAPING TO AS GOOD OR BETTER CONDITION. THE EACH QUANTITY CONSIST OF LANDSCAPING PER LOT.
- SALVAGED MAILBOX POSTS TO BE PLACED TO ORIGINAL LOCATION OR AS DIRECTED BY THE ENGINEER.
- LINEAR FOOT MEASUREMENT INCLUDES FLARED END SECTION.

GENERAL NOTES:

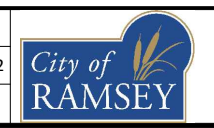
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS NOT GUARANTEED ANY OR ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT CONSTRUCTION LIMITS BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO IRRIGATION SYSTEMS WHERE POSSIBLE.
- STREET INTERSECTION CURB & GUTTER RADII ASSUMED 20', UNLESS OTHERWISE NOTED.
- PERMANENT SIGN REMOVAL AND INSTALLATION IS TO BE PERFORMED BY CITY OF RAMSEY PUBLIC WORKS DEPARTMENT.
- IN THE RECONSTRUCTION AREA (STREETS EAST OF ARMSTRONG BOULEVARD) THE CENTERLINE PROFILES ARE GENERALLY BEING RAISED 2 INCHES. THIS IS PROPOSED TO BE ACHIEVED BY RECLAIMING THE EXISTING BITUMINOUS AND AGGREGATE BASE FULL-DEPTH, REMOVAL OF 1.5 INCHES RECLAIM MATERIAL, SHAPE AND COMPACT REMAINING IN-PLACE RECLAIM MATERIAL, PLACEMENT OF 2 INCHES NON-WEAR COURSE BITUMINOUS PAVEMENT AND PLACEMENT OF 1.5 INCHES WEAR COURSE BITUMINOUS PAVEMENT.
- IN THE RECLAMATION REHABILITATION AREA (STREETS WEST OF ARMSTRONG BOULEVARD) THE CENTERLINE PROFILE IS PROPOSED TO GO BACK TO THE EXISTING ELEVATION. THIS IS PROPOSED TO BE ACHIEVED BY RECLAIMING THE EXISTING BITUMINOUS AND AGGREGATE BASE FULL-DEPTH, REMOVAL OF 2.0 INCHES RECLAIM MATERIAL, SHAPE AND COMPACT REMAINING IN-PLACE RECLAIM MATERIAL, PLACEMENT OF 2 INCHES WEAR COURSE BITUMINOUS PAVEMENT MATCHING THE EXISTING PROFILE AT CENTERLINE AND PAVEMENT EDGE.

DATE	REVISION
7/20/22	UPDATE QUANTITIES ASSOCIATED WITH ADD. CULVERT REPLACEMENTS.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota


JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

DESIGNED BY:	JJF
DRAWN BY:	JJF
CHECKED BY:	JJF



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

STATEMENT OF ESTIMATED QUANTITIES

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

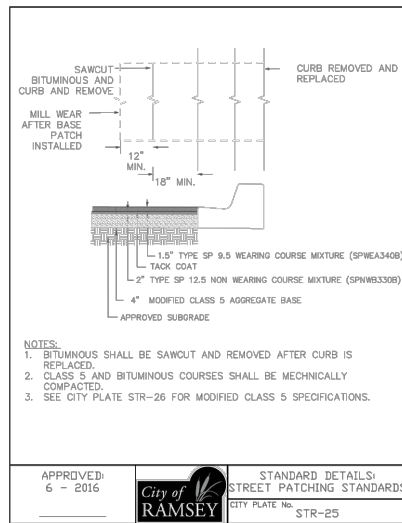
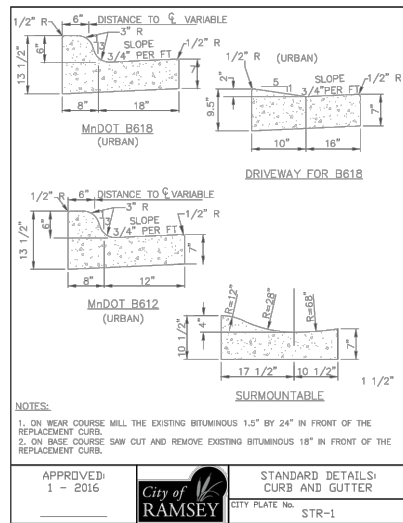
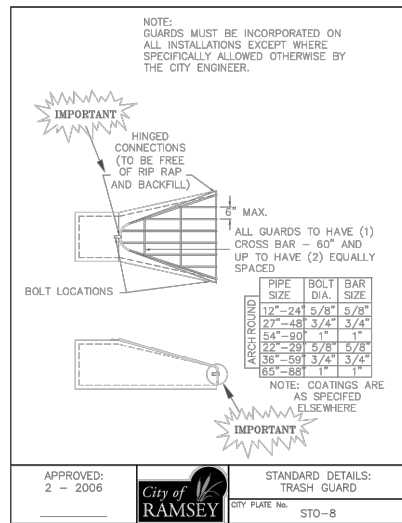
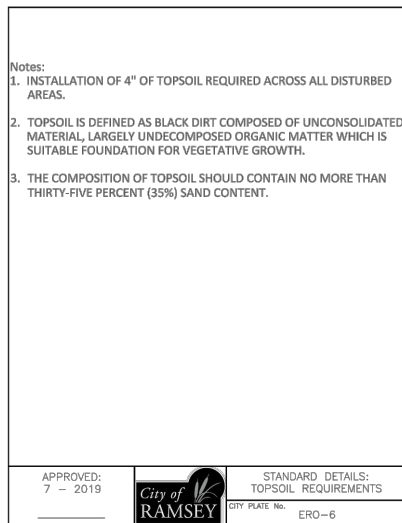
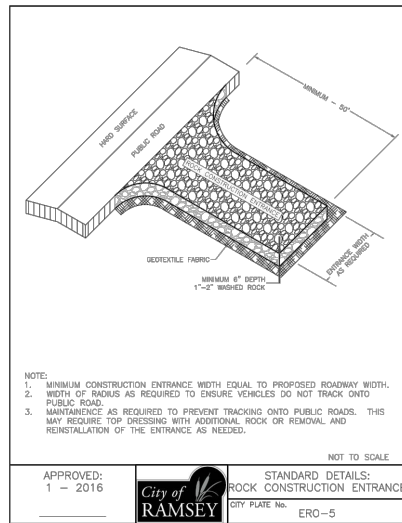
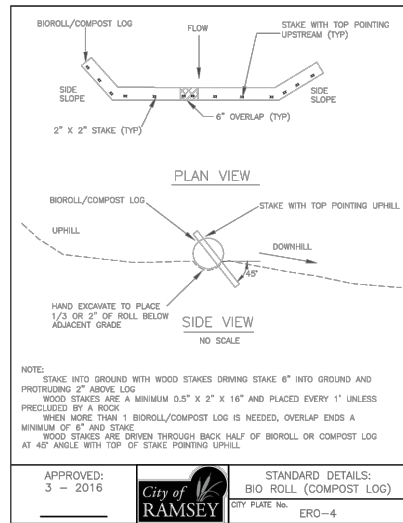
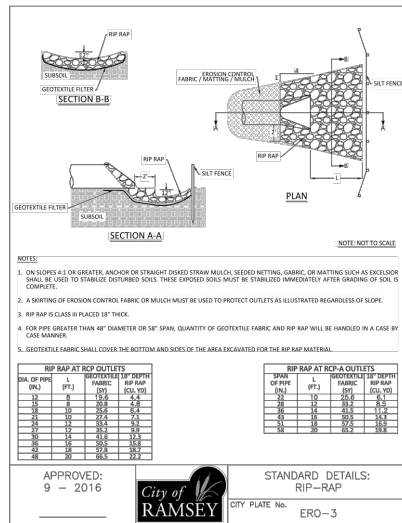
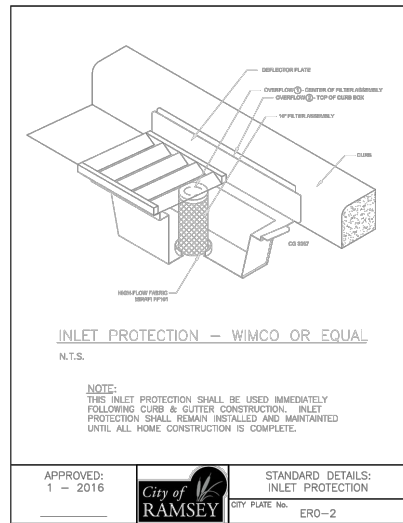
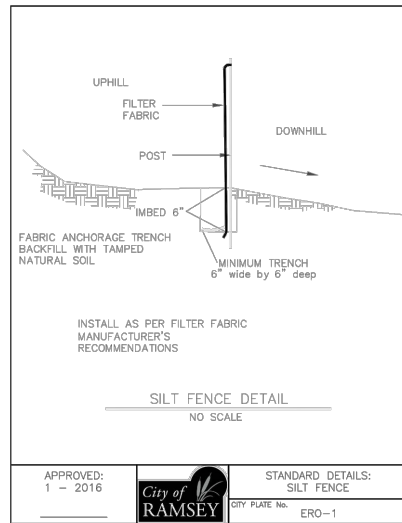


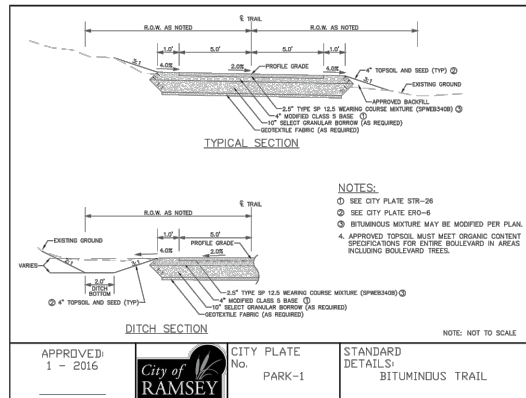
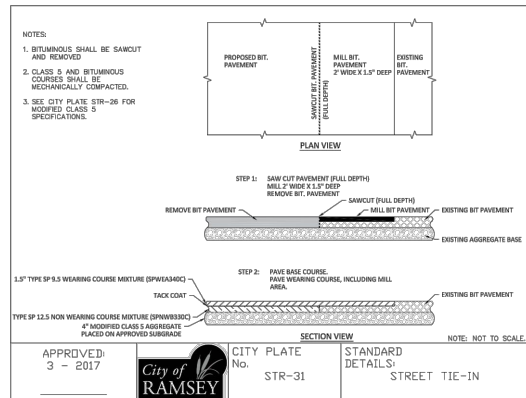
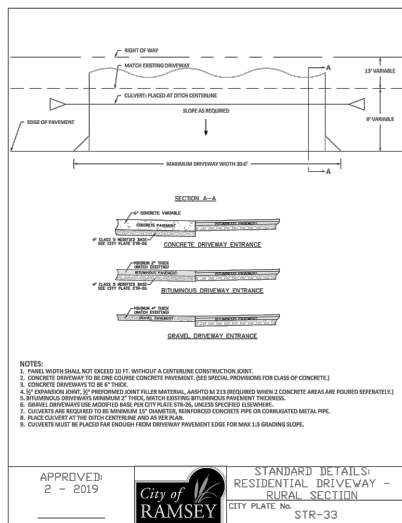
TABLE A
MODIFIED CLASS 5 SPECIFICATIONS

% PASSING

1"	100
3/4"	90 - 100
3/8"	50 - 80
No. 4	35 - 70
No. 10	20 - 60
No. 40	10 - 35
No. 200	5 - 10

NOTE: 1. THE AGGREGATE BASE CONSTRUCTION WILL BE ACCEPTED FOR PAYMENT IN ACCORDANCE WITH THE PROVISIONS IN TABLE A.
2. IF THE AGGREGATE BASE FAILS TO MEET THE REQUIREMENTS OF TABLE A THE MATERIAL CAN BE CORRECTED IN PLACE OR REMOVED AND REPLACED WITH MATERIAL THAT MEET THE REQUIREMENTS OF TABLE A.
3. IN THE EVENT THAT RECYCLED MATERIAL IS USED IT MUST MEET MNDOT REQUIREMENTS FOR RECYCLED BASE.

APPROVED: 2 - 2003
City of Ramsey
STANDARD DETAILS: MODIFIED CLASS 5 SPECIFICATIONS
CITY PLATE No. STR-26



DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Joe Feriancek
JOE FERIANCEK
Date: 7/7/22 Lic. No. 57095

DESIGNED BY: JJF
DRAWN BY: JJF
CHECKED BY: JJF

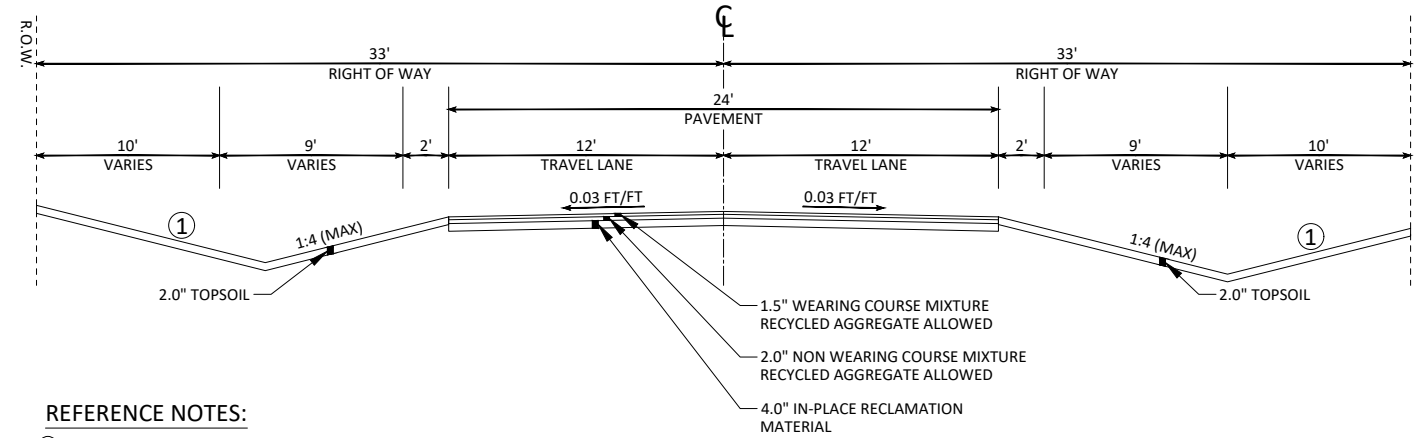
DATE: 6/28/22
FILE: 22-02

CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
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DETAILS

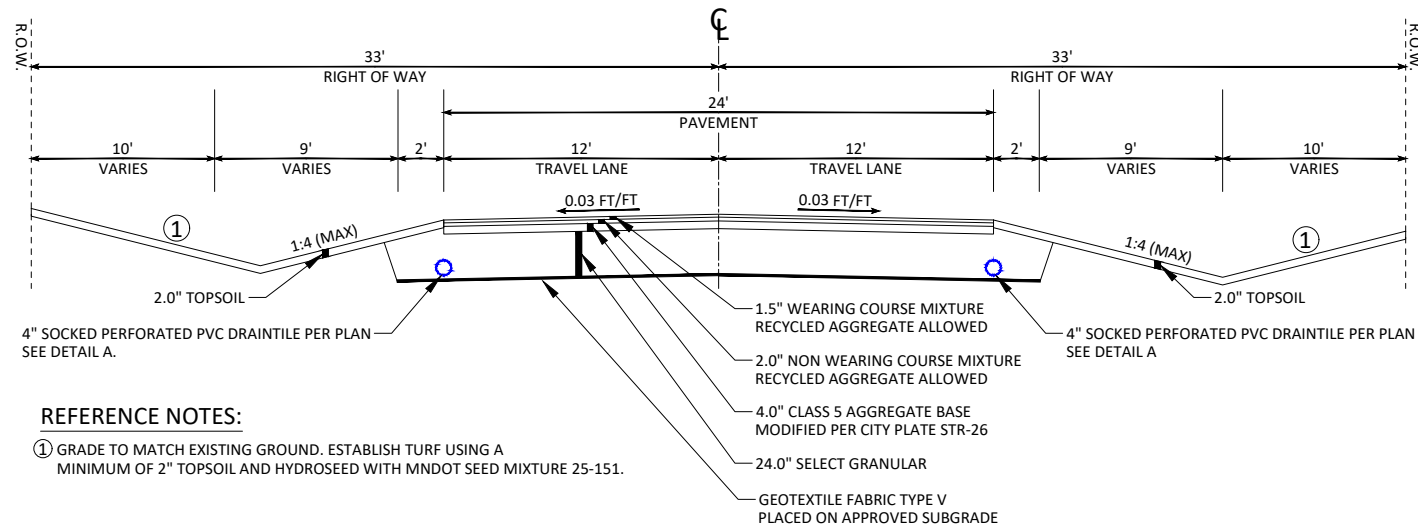
AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA

TYPICAL SECTION: RECONSTRUCTION (STREETS EAST OF ARMSTRONG BOULEVARD)



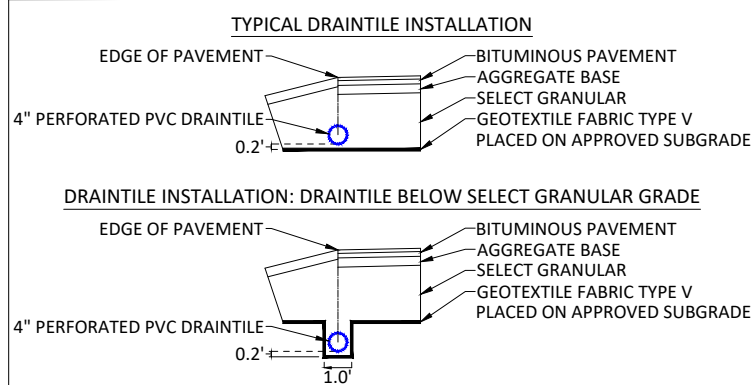
- REFERENCE NOTES:**
- ① GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 2" TOPSOIL AND HYDROSEED WITH MNDOT SEED MIXTURE 25-151.

TYPICAL SECTION: SOIL CORRECTION AREA

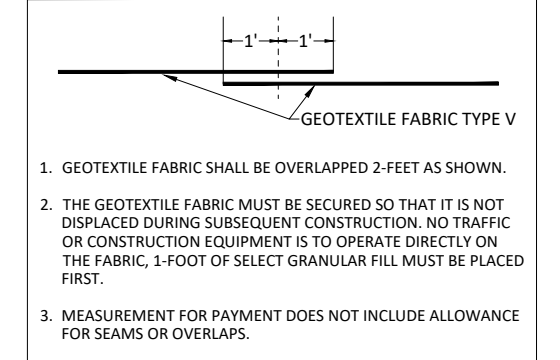


- REFERENCE NOTES:**
- ① GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 2" TOPSOIL AND HYDROSEED WITH MNDOT SEED MIXTURE 25-151.

DETAIL A: DRAINTILE INSTALLATION

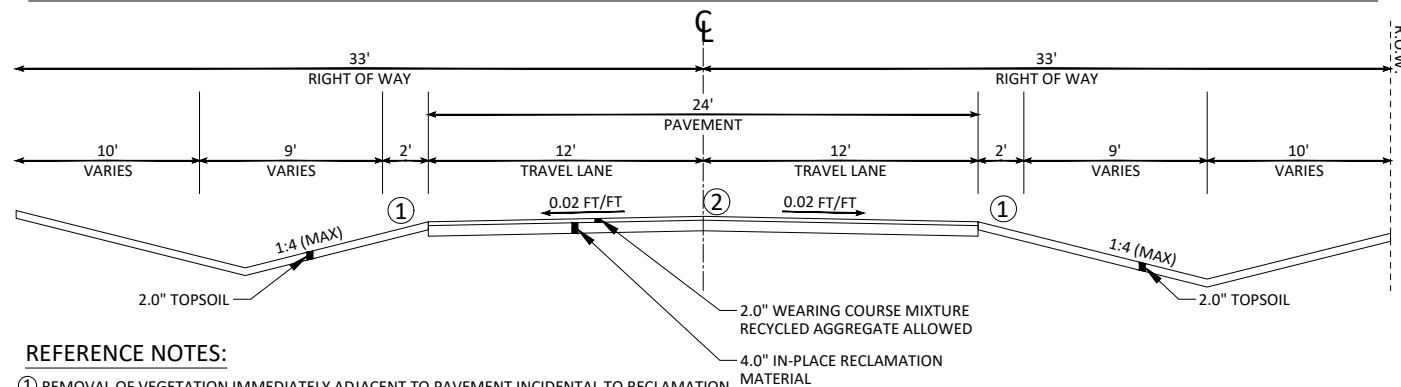


DETAIL B: GEOTEXTILE FABRIC SEAM



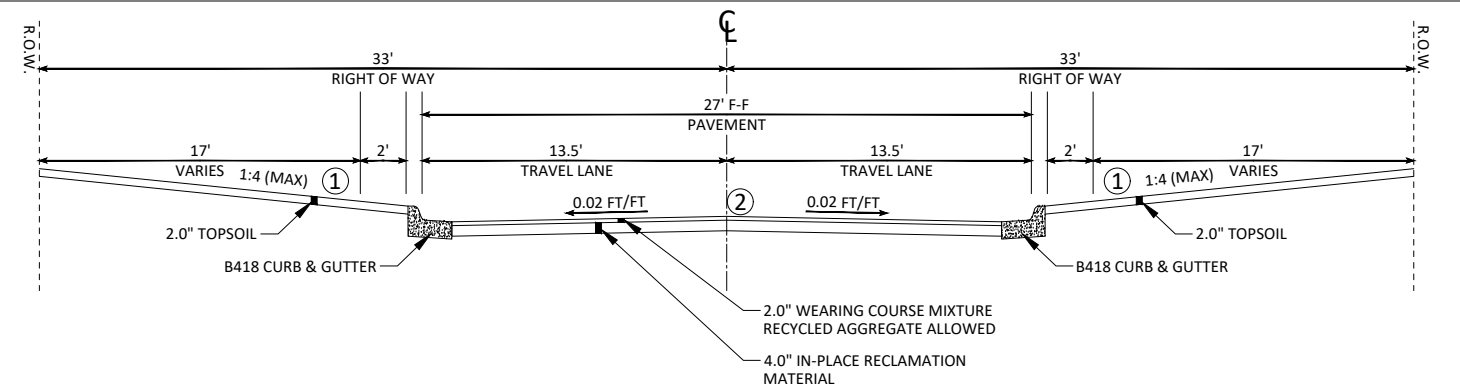
1. GEOTEXTILE FABRIC SHALL BE OVERLAPPED 2- FEET AS SHOWN.
2. THE GEOTEXTILE FABRIC MUST BE SECURED SO THAT IT IS NOT DISPLACED DURING SUBSEQUENT CONSTRUCTION. NO TRAFFIC OR CONSTRUCTION EQUIPMENT IS TO OPERATE DIRECTLY ON THE FABRIC, 1-FOOT OF SELECT GRANULAR FILL MUST BE PLACED FIRST.
3. MEASUREMENT FOR PAYMENT DOES NOT INCLUDE ALLOWANCE FOR SEAMS OR OVERLAPS.

TYPICAL SECTION: RECLAMATION REHABILITATION (STREETS WEST OF ARMSTRONG BOULEVARD)



- REFERENCE NOTES:**
- ① REMOVAL OF VEGETATION IMMEDIATELY ADJACENT TO PAVEMENT INCIDENTAL TO RECLAMATION GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 2" TOPSOIL AND HYDROSEED WITH MNDOT SEED MIXTURE 25-151.
 - ② MATCH EXISTING STREET PROFILE AT CENTERLINE AND EDGE OF PAVEMENT. HAUL-OFF 2" RECLAIM MATERIAL; PLACE 2" BITUMINOUS WEAR COURSE

TYPICAL SECTION: RECLAMATION REHABILITATION W/CURB & GUTTER (167TH LANE STA. 15+80 TO 18+30)



- REFERENCE NOTES:**
- ① REMOVAL OF VEGETATION IMMEDIATELY ADJACENT TO PAVEMENT INCIDENTAL TO RECLAMATION GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 2" TOPSOIL AND HYDROSEED WITH MNDOT SEED MIXTURE 25-151.
 - ② MATCH EXISTING STREET PROFILE HAUL-OFF 2" RECLAIM MATERIAL; PLACE 2" BITUMINOUS WEAR COURSE

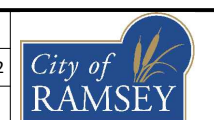
DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Joe Feriancek
 JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

DESIGNED BY: JJF
 DRAWN BY: JJF
 CHECKED BY: JJF

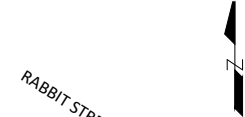
DATE: 6/28/22
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TYPICAL SECTIONS

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



169TH AVENUE: CDS TO RABBIT STREET

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L1	203.749	S89° 34' 20.33"E	(442244.3442,188420.6094)	(442448.0877,188419.0885)
L2	85.971	S67° 18' 44.22"E	(442568.1043,188394.5450)	(442647.4229,188361.3853)
L3	98.298	S69° 41' 21.08"E	(442655.1420,188358.3447)	(442747.3284,188324.2242)
L4	39.961	S50° 20' 55.60"E	(442802.5354,188292.3748)	(442833.3032,188266.8751)
L5	36.674	S78° 24' 46.26"E	(442891.9532,188238.7506)	(442927.8796,188231.3843)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	317.299	123.274	S78° 26' 32.27"E	(442448.0877,188419.0885)	(442568.1043,188394.5450)
C2	200.000	8.297	S68° 30' 02.65"E	(442647.4229,188361.3853)	(442655.1420,188358.3447)
C3	189.715	64.039	S60° 01' 08.34"E	(442747.3284,188324.2242)	(442802.5354,188292.3748)
C4	134.132	65.699	S64° 22' 50.93"E	(442833.3032,188266.8751)	(442891.9532,188238.7506)

RABBIT STREET: 168TH AVENUE TO ARMSTRONG BOULEVARD (CSAH 83)

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L6	484.212	N01° 24' 23.23"E	(442919.8511,187904.3887)	(442931.7360,188388.4547)

168TH AVENUE: (WEST) CDS TO (EAST) CDS

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L7	702.626	S87° 55' 30.83"E	(442528.2562,187918.5751)	(443230.4217,187893.1375)
L8	262.369	S66° 14' 33.95"E	(443435.3978,187846.1314)	(443675.5340,187740.4328)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C5	559.038	211.557	S77° 05' 02.39"E	(443230.4217,187893.1375)	(443435.3978,187846.1314)

PUMA STREET: 167TH LANE TO 168TH AVENUE

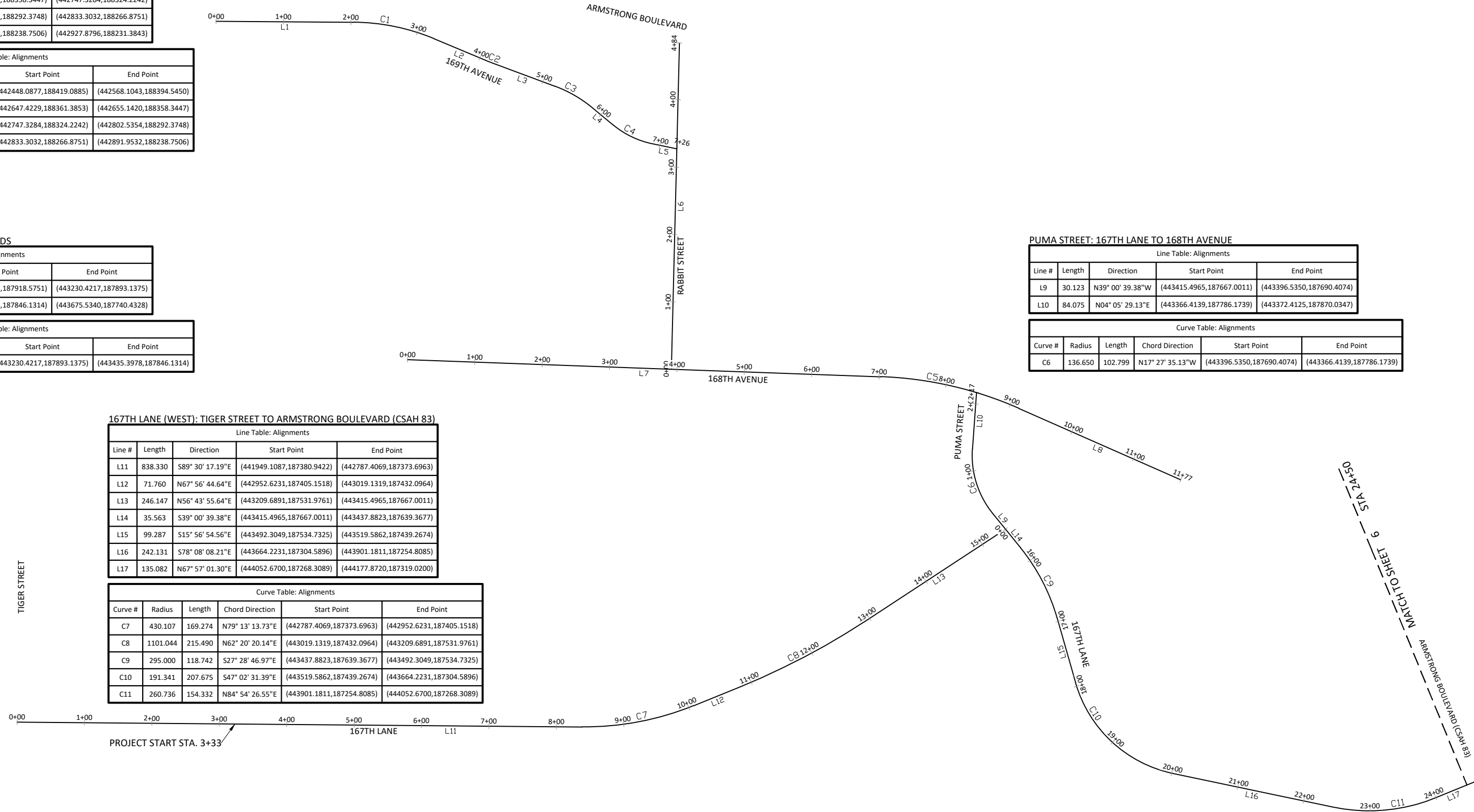
Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L9	30.123	N39° 00' 39.38"W	(443415.4965,187667.0011)	(443396.5350,187690.4074)
L10	84.075	N04° 05' 29.13"E	(443366.4139,187786.1739)	(443372.4125,187870.0347)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C6	136.650	102.799	N17° 27' 35.13"W	(443396.5350,187690.4074)	(443366.4139,187786.1739)

167TH LANE (WEST): TIGER STREET TO ARMSTRONG BOULEVARD (CSAH 83)

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L11	838.330	S89° 30' 17.19"E	(441949.1087,187380.9422)	(442787.4069,187373.6963)
L12	71.760	N67° 56' 44.64"E	(442952.6231,187405.1518)	(443019.1319,187432.0964)
L13	246.147	N56° 43' 55.64"E	(443209.6891,187531.9761)	(443415.4965,187667.0011)
L14	35.563	S39° 00' 39.38"E	(443415.4965,187667.0011)	(443437.8823,187639.3677)
L15	99.287	S15° 56' 54.56"E	(443492.3049,187534.7325)	(443519.5862,187439.2674)
L16	242.131	S78° 08' 08.21"E	(443664.2231,187304.5896)	(443901.1811,187254.8085)
L17	135.082	N67° 57' 01.30"E	(444052.6700,187268.3089)	(444177.8720,187319.0200)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C7	430.107	169.274	N79° 13' 13.73"E	(442787.4069,187373.6963)	(442952.6231,187405.1518)
C8	1101.044	215.490	N62° 20' 20.14"E	(443019.1319,187432.0964)	(443209.6891,187531.9761)
C9	295.000	118.742	S27° 28' 46.97"E	(443437.8823,187639.3677)	(443492.3049,187534.7325)
C10	191.341	207.675	S47° 02' 31.39"E	(443519.5862,187439.2674)	(443664.2231,187304.5896)
C11	260.736	154.332	N84° 54' 26.55"E	(443901.1811,187254.8085)	(444052.6700,187268.3089)



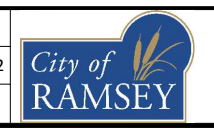
DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Joe Feriancek
 JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

DESIGNED BY: JJF
 DRAWN BY: JJF
 CHECKED BY: JJF

DATE: 6/28/22
 FILE: 22-02



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

ALIGNMENT LAYOUT WEST

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



NUTRIA STREET: CDS TO RABBIT STREET

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L28	391.624	N00° 43' 53.28"E	(444231.1024,187759.0781)	(444236.1019,188150.6701)
L29	220.971	N00° 39' 15.71"W	(444236.1101,188162.7634)	(444233.5864,188383.7200)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C21	500.000	12.094	N00° 02' 18.79"E	(444236.1019,188150.6701)	(444236.1101,188162.7634)

168TH LANE: NUTRIA STREET TO CDS

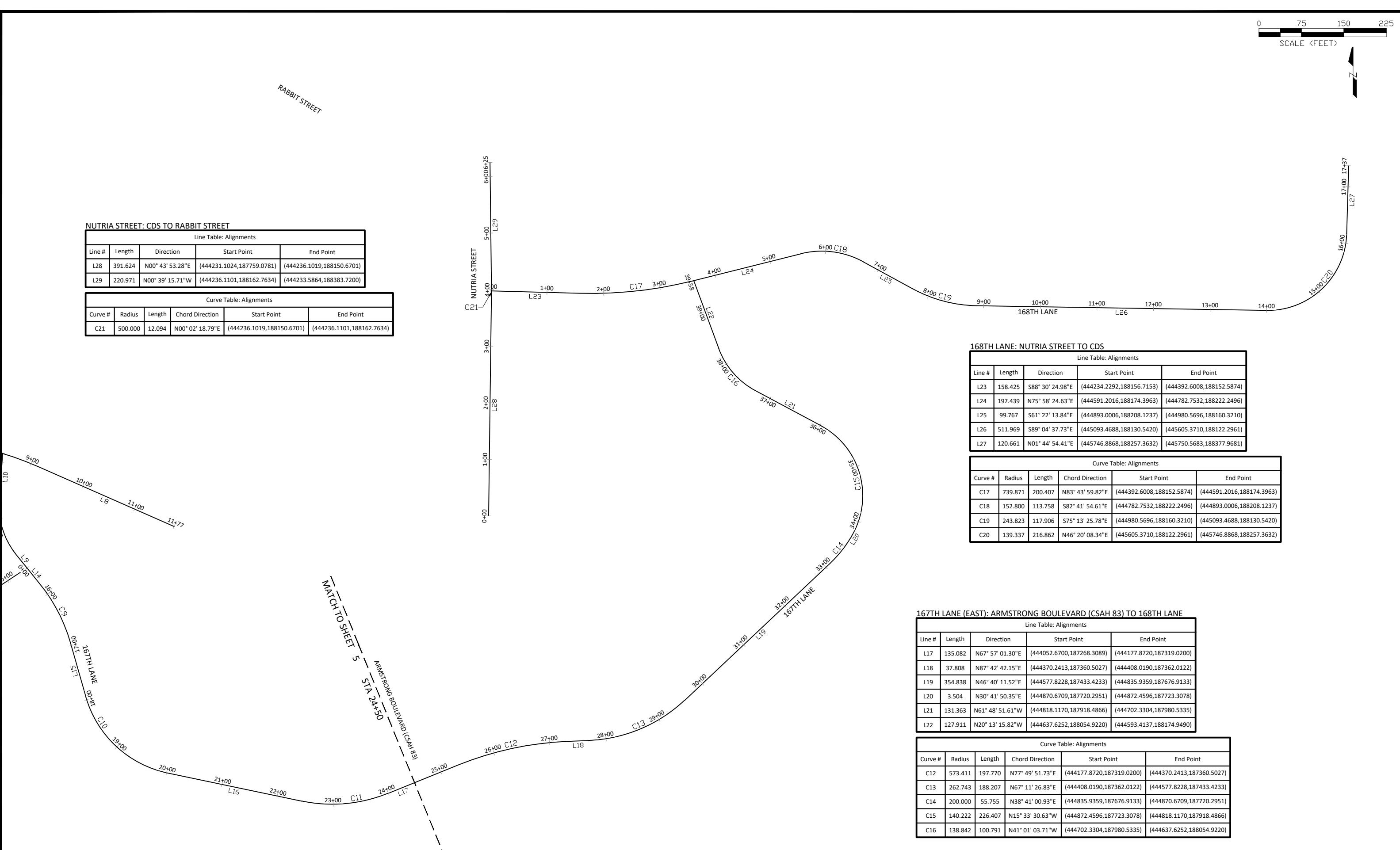
Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L23	158.425	S88° 30' 24.98"E	(444234.2292,188156.7153)	(444392.6008,188152.5874)
L24	197.439	N75° 58' 24.63"E	(444591.2016,188174.3963)	(444782.7532,188222.2496)
L25	99.767	S61° 22' 13.84"E	(444893.0006,188208.1237)	(444980.5696,188160.3210)
L26	511.969	S89° 04' 37.73"E	(445093.4688,188130.5420)	(445605.3710,188122.2961)
L27	120.661	N01° 44' 54.41"E	(445746.8868,188257.3632)	(445750.5683,188377.9681)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C17	739.871	200.407	N83° 43' 59.82"E	(444392.6008,188152.5874)	(444591.2016,188174.3963)
C18	152.800	113.758	S82° 41' 54.61"E	(444782.7532,188222.2496)	(444893.0006,188208.1237)
C19	243.823	117.906	S75° 13' 25.78"E	(444980.5696,188160.3210)	(445093.4688,188130.5420)
C20	139.337	216.862	N46° 20' 08.34"E	(445605.3710,188122.2961)	(445746.8868,188257.3632)

167TH LANE (EAST): ARMSTRONG BOULEVARD (CSAH 83) TO 168TH LANE

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L17	135.082	N67° 57' 01.30"E	(444052.6700,187268.3089)	(444177.8720,187319.0200)
L18	37.808	N87° 42' 42.15"E	(444370.2413,187360.5027)	(444408.0190,187362.0122)
L19	354.838	N46° 40' 11.52"E	(444577.8228,187433.4233)	(444835.9359,187676.9133)
L20	3.504	N30° 41' 50.35"E	(444870.6709,187720.2951)	(444872.4596,187723.3078)
L21	131.363	N61° 48' 51.61"W	(444818.1170,187918.4866)	(444702.3304,187980.5335)
L22	127.911	N20° 13' 15.82"W	(444637.6252,188054.9220)	(444593.4137,188174.9490)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C12	573.411	197.770	N77° 49' 51.73"E	(444177.8720,187319.0200)	(444370.2413,187360.5027)
C13	262.743	188.207	N67° 11' 26.83"E	(444408.0190,187362.0122)	(444577.8228,187433.4233)
C14	200.000	55.755	N38° 41' 00.93"E	(444835.9359,187676.9133)	(444870.6709,187720.2951)
C15	140.222	226.407	N15° 33' 30.63"W	(444872.4596,187723.3078)	(444818.1170,187918.4866)
C16	138.842	100.791	N41° 01' 03.71"W	(444702.3304,187980.5335)	(444637.6252,188054.9220)



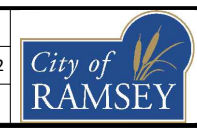
DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Joe Feriancek
 JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

DESIGNED BY: JJF
 DRAWN BY: JJF
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DATE: 6/28/22
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CITY OF RAMSEY
 7550 SUNWOOD DRIVE
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ALIGNMENT LAYOUT EAST

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

SHEET 06 OF 60 SHEETS

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

AUTUMN HEIGHTS STREET RECONSTRUCTIONS

CITY OF RAMSEY ANOKA COUNTY, MINNESOTA

DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:

Construction activities include; Site Grading, Storm Culvert Construction, Temporary Erosion and Sediment Control, Roadway Construction, and Permanent Stabilization.

Project Description: This project consists of reconstructing 1.61 miles of existing bituminous streets, using full-depth reclamation, replacing bituminous street to approximately 2 inches above existing grade, replacing existing storm culverts to existing locations and elevations. The drainage for the existing streets uses ditches along both sides of the streets and cross street culverts to direct flow generally to Trott Brook, County Ditch 51 and the Armstrong Boulevard ditch, generally located south of the proposed street improvements. There is no change to the outfall location of storm water runoff proposed with this project.

RESPONSIBLE PARTIES:

The Contractor and Owner must apply for coverage under the MPCA's General Storm Water Permit for Construction Activity as required by the National Pollution Discharge Elimination System (NPDES) Phase II program. Coverage under the permit will begin automatically 7 calendar days after the electronic submittal date or after the postmarked date of a complete application. (Longer time frames will apply to areas disturbing 50 acres or discharge within 1 mile of a special water).

	COMPANY	CONTACT PERSON	PHONE
OWNER:	CITY OF RAMSEY	BRUCE WESTBY, PE	763-433-9825
SWPPP DESIGNER:	CITY OF RAMSEY	JOE FERIANCEK, PE	763-433-9893
CONTRACTOR:			
SITE MANAGER:			
PARTY RESPONSIBLE FOR LONG TERM O&M:	CITY OF RAMSEY	BRUCE WESTBY, PE	763-433-9825

Individuals listed above, including the SWPPP preparer, individual overseeing implementation of, revising and amending the SWPPP, Individuals performing or supervising the installation, maintenance and repair of BMP's must be trained. At least one individual present on the permitted project, or available within 72 hours shall be trained in the applicable job duties. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Copies of the SWPPP preparer information is included in the Project Manual. The Contractor shall provide information for the individual(s) overseeing implementation, supervising installation, maintenance, and repair of BMP's to be included in the Project Manual prior to the start of construction. This information shall be kept up to date until the project NOT is filed.

Documentation shall include:

- Names of trained personnel associated with this project.
- Dates of training, names of instructor(s) and entity providing training.
- Content of training course or workshop including the number of hours trained.
- As an alternative to a, b, and c listed above, a photocopy of the current Erosion and Stormwater Management card issued by the University of Minnesota can be attached to the SWPPP as suitable documentation of training.

DOCUMENTATION RETENTION:

The following documentation will be retained for a period of not less than 3-years from the date of submittal of the NOT.

- The final SWPPP.
- Copies of all stormwater related permits required for the project.
- Records of all inspection and maintenance conducted during construction.
- Copies of all permanent operation and maintenance agreements; including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance.
- All required calculations for design of temporary and permanent BMP's.

IMPLEMENTATION SCHEDULE AND PHASING:

- Furnish & Install perimeter sediment control and inlet protection.
- Reclamation of existing bituminous pavement.
- Rough grade site.
- Furnish & install bituminous pavement.
- Add additional temporary BMP's as necessary during construction based on inspection reports.
- Submit Notice of Termination (NOT) to MPCA within 30 days of final stabilization.

FINAL STABILIZATION:

The permittee(s) must ensure final stabilization of the site. The permittee(s) must submit a NOT within 30 days after final stabilization is complete, or another owner/operator (permittee) has assumed control over all areas of the site which have not undergone final stabilization. Final stabilization can be achieved in one of the following ways:

- All soil disturbing activities at the site have been completed and all soils must be stabilized by a uniform perennial vegetative cover with a density of 70 percent over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions and;
 - All drainage ditches, constructed to drain water from the site after construction is complete, must be stabilized to preclude erosion;
 - All temporary synthetic, and structural erosion prevention and sediment control BMP's (such as silt fence) must be removed as part of the site final stabilization; and
 - The permittee(s) must clean out all sediment from conveyances and from temporary sedimentation basins to be used as permanent water quality management basins. Sediment must be stabilized to prevent it from being washed back into the basin, conveyances or drainage ways discharging off-site or to surface waters. The cleanout of permanent basins must be sufficient to return the basin to design capacity.
- Final vegetation cover shall be in the Project Specifications.
- For residential construction only, final stabilization has been achieved when temporary erosion protection and down gradient perimeter control for individual lots has been completed and the residence has been transferred to the homeowner. Additionally, the permittee must distribute the MPCA "Homeowner fact sheet" to the homeowner to inform the homeowner of the need for, and benefits of, final stabilization.

SPECIAL ENVIRONMENTAL CONSIDERATIONS:

Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
Does any portion of the site have the potential to affect threatened or endangered species?	NO
Does any portion of this site discharge to a Calcareous Fen and the letter of approval from the DNR is located in the Project Manual?	NO
Will any portion of this site potentially affect properties listed on the National Register of Historic Places or a Known or Discovered Archeological site?	NO
Have any Karst features been identified in the project vicinity?	NO
Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO

POLLUTION PREVENTION MANAGEMENT MEASURES:

The permittee(s) shall implement the following pollution prevention management measures on the site:

- Solid waste: collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal regulations.
- Hazardous materials: oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
- External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed on site.

GENERAL STORMWATER DISCHARGE REQUIREMENTS:

All requirements listed in Part 15 of the permit for the design of permanent stormwater treatment system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

- The expected amount, frequency, intensity and duration of precipitation.
- The nature of stormwater runoff and run-on at the site.
- Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
- The range of soil particle sizes expected to be present on the site.

RECEIVING WATERS:

Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds are identified on the USGS 7.5min quad map within 1 mile of the project boundary. Receiving waters that are impaired, the impairment and WLA are listed as follows. All specific BMP's relative to construction activities listed in this permit for special and impaired waters have been incorporated into this plan. All specific BMP's listed in approved TMDLs and those BMP's listed for construction related waste load allocations have also been incorporated.

NAME OF WATER BODY	TYPE (DITCH, POND, WETLAND, LAKE, ETC.)	APPENDIX A SPECIAL WATER?	FLOWS TO IMPAIRED WATER WITHIN 1 MILE?	USEPA APPROVED TMDL?
TROTT BROOK	RIVER	YES	YES	YES
DO; FISHESBIO; INVERTBIO				

PROJECT AREAS:

Total project size (disturbed area) =	5.40 acres
Existing area of impervious surface =	3.95 acres
Post construction area of impervious surface =	3.97 acres
New impervious surface area created =	0.02 acres

Planned construction start date: August 2022
Planned construction completion date: June 2023

PROJECT LOCATION:

County: ANOKA Township: 32 Range: 25 Section: 8 Latitude: 45.275804 Longitude: -93.483431

PERMANENT STORMWATER MANAGEMENT SYSTEM:

Type of storm water management used if more than 1 acre of new impervious surface is created:

- Wet Sedimentation Pond
- Infiltration / Filtration
- Regional Pond
- Permanent Stormwater Management Not Required

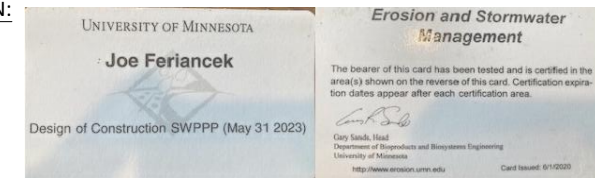
LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN:

DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	SHEETS No. 09 - 15
FINAL STABILIZATION	SHEETS No. 29 - 41
EROSION AND SEDIMENT CONTROL DETAILS	SHEETS No. 03

EROSION AND SEDIMENT CONTROL QUANTITIES:

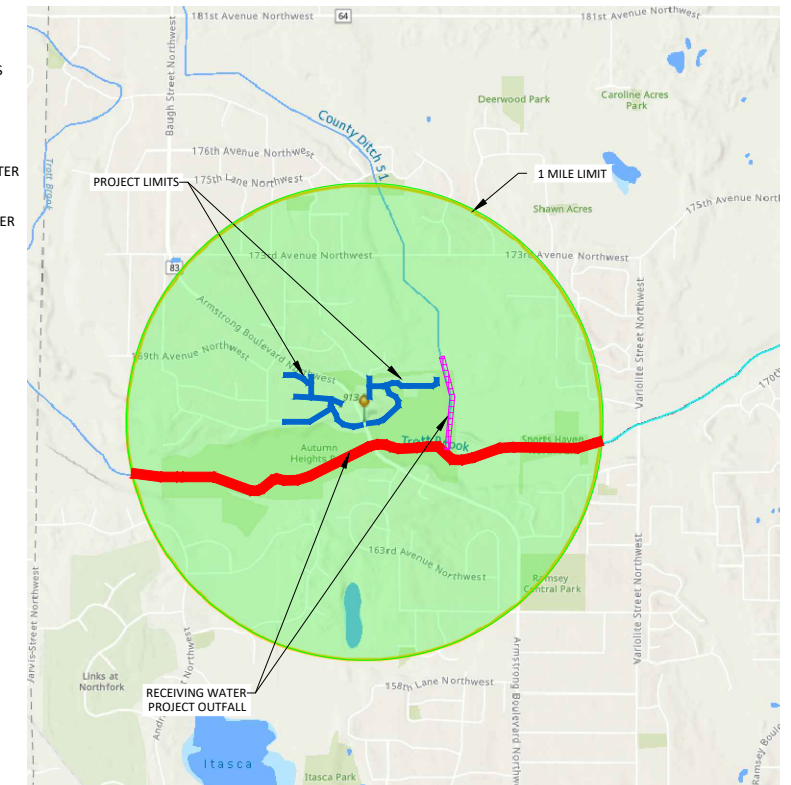
DESCRIPTION	QUANTITY
STORM DRAIN INLET PROTECTION - CULVERT	24 EA.
SEDIMENT CONTROL LOG - TYPE STRAW	2580 LF
SILT FENCE - TYPE MS	3445 LF
STABILIZED CONSTRUCTION EXIT	1 EA
RANDOM RIPRAP CLASS III	26 CY
HYDRAULIC MATRIX TYPE MULCH	5720 LBS

CERTIFICATION:



LEGEND

- PROJECT LIMITS
- 1 MILE LIMIT
- RECEIVING WATER
- IMPAIRED WATER

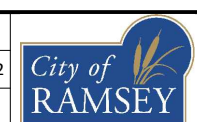


DATE	REVISION
7/20/22	UPDATE QUANTITIES ASSOCIATED WITH ADD. CULVERT REPLACEMENTS.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

JOE FERIANCEK
Date: 7/7/22 Lic. No. 57095

DESIGNED BY:	JJF
DRAWN BY:	JJF
CHECKED BY:	JJF



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

SWPPP

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA

SHEET 07 OF 60 SHEETS

SEQUENCE OF CONSTRUCTION:

Construction shall proceed in the following sequence:

1. Contractor shall schedule and conduct a pre-construction meeting with the City.
2. Contractor shall secure all necessary permits and licenses.
3. Furnish & install erosion control measures.
4. Maintain erosion control measures, i.e. silt fence, inlet protection.
5. Reclaim existing bituminous pavement and base.
6. Haul-off excess reclamation material.
7. Grade and compact remaining in-place reclamation material.
8. Furnish & install base course of bituminous pavement
9. Complete restoration per plan.
10. Furnish & install wear course bituminous pavement.
11. Remove erosion control after vegetation is established.

ADDITIONAL STORMWATER POLLUTION PREVENTION, GRADING PLAN, AND SCHEDULE NOTES:

1. All slopes to be 1:4 unless approved by the city engineer.
2. Below grade structures shall be protected and meet drainage requirements per the city engineer.
3. Construction operation hours are from 7:00 a.m. - 10:00 p.m. Monday through Saturday.
4. Call Gopher State One Call for utility locations prior to any work at 1-800-252-1166.
5. Permittee may need to modify SWPPP if the general objectives of controlling pollutants is not being met.
6. Operator shall implement these and any other BMP's that may be required to meet the general permit requirements.
7. Site is not in karst area or pollution or remediation site.
8. Silt fence to be installed downhill from any grading activity.
9. If tracking onto adjacent streets occurs a street sweeper shall be used to clean streets within 8 hours or as directed by the engineer.
10. Dust control may be necessary during rough grading. No grading can take place if wind speed exceeds 25 mph.
11. Solid waste shall be collected and disposed of properly and must comply with MPCA disposal requirements.
12. Hazardous materials shall be stored properly to prevent spills and vandalism.
13. No engine degreasing is allowed on site. External washing of vehicles shall be limited to a defined area (bone yard) on site.
14. Permittee(s) shall adhere to all SWPPP specifications on the plan and other MPCA permit requirements.

EROSION PREVENTION PRACTICES:

1. The permittee(s) must plan for and implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices that minimize erosion, so that the inspection and maintenance requirements are complied with. The location of areas not to be disturbed must be delineated (e.g. with flags, stakes, signs, silt fence, etc.) on the development site before work begins.
2. All exposed soil areas must be stabilized as soon as practical, but in no case later than 7 days after the construction area has temporarily or permanently ceased.
These areas include constructed stormwater management pond side slopes, and any exposed soil areas with a positive slope to a stormwater conveyance system, such as a curb and gutter system, storm sewer inlet, temporary or permanent drainage ditch or other natural or man made systems that discharge to a surface water.
3. The normal wetted perimeter of any temporary or permanent drainage ditch that drains water from a construction site, or diverts water around a site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge to any surface water. Stabilization must be completed within 24 hours of connecting to a surface water.
4. Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
5. All disturbed areas, except roadways, building areas, parking areas, islands and sidewalk, shall be restored with minimum 4 inches topsoil, seeded and mulched within 7 days of completion of site grading. Seeding shall be in accordance with MnDOT Specification 2575. Where side slopes exceed or equal 1:3 and running slope is greater than 1:50, a polypropylene netting or wood fiber blanket shall be provided and staked over the mulched area. Seed and mulch types and applications rates are per plan and specification.
6. Refer to restoration plan for areas to be seeded or sodded for erosion control.

DEWATERING AND BASIN DRAINING:

1. Dewatering or basin draining (e.g. pumped discharges, trench/ditch cuts for drainage) related to the construction activity that may have turbid or sediment laden discharge water must be discharged to a temporary or permanent sedimentation basin on the project site whenever possible. If the water cannot be discharged to a sedimentation basin prior to entering the surface water, it must be treated with the appropriate BMP's, such that the discharge does not adversely affect the receiving water or downstream landowners. The permittee(s) must ensure that discharge points are adequately protected from erosion and scour. The discharge must be dispersed over natural rock rip rap, sand bags, plastic sheeting or other accepted energy dissipation measures. Adequate sedimentation control measures are required for discharge water that contains suspended solids.
2. All water from dewatering or basin draining activities must be discharged in a manner that does not cause nuisance conditions, erosion in receiving channels or on downslope properties, or inundation in wetlands causing significant adverse impact to the wetland.

SEDIMENT CONTROL PRACTICES:

1. Sediment control practices must minimize sediment from entering surface waters, including curb and gutter systems and storm sewer inlets.
 - a. Temporary or permanent drainage ditches and sediment basins that are designed as part of a treatment system (e.g. ditches with rock check dams) require sediment control practices only as appropriate for site conditions.
 - b. If the down gradient treatment system is overloaded, additional upgradient sediment control practices must be installed to eliminate the overloading, and the SWPPP must be amended to identify these additional practices.
 - c. In order to maintain sheet flow and minimize rills and/or gullies, there shall be no unbroken slope length of greater than 75 feet for slopes with a grade of 1:3 or steeper.
2. Sediment control practices must be established on all down gradient perimeters before any upgradient land disturbing activities begin. These practices shall remain in place until final stabilization has been established.
3. The timing of the installation of sediment control practices may be adjusted to accommodate short-term activities such as clearing or grubbing, or passage of vehicles. Any short-term activity must be completed as quickly as possible and the sediment control practices must be installed immediately after the activity is completed. However, sediment control practices must be installed before the next precipitation event even if the activity is not complete.
4. All storm drain inlets must be protected by appropriate BMP's during construction until all sources with potential for discharging to the inlet have been stabilized.
5. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or conduits and ditches.
6. Stockpile areas which remain on the site for more than seven days shall be seeded, mulched, and surrounded by silt fence.
7. Vehicle tracking of sediment from the construction site must be minimized by BMP's such as stone pads, concrete or steel wash racks, or equivalent systems. Street sweeping must be used if such BMPs are not adequate to prevent sediment from being tracked onto the street.
8. The permittee must install temporary sedimentation basins as required.

INSPECTIONS AND MAINTENANCE:

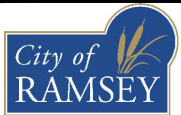
1. The permittee(s) (either the owner or operator, whoever is identified in the SWPPP) must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5-inches in 24 hours. Following an inspection that occurs within 24 hours after a rainfall event, the next inspection must be conducted within 7 days.
2. All inspections and maintenance conducted during construction must be recorded in writing and these records must be retained with the SWPPP. Records of each inspection and maintenance activity shall include:
 - a. Date and time of inspections;
 - b. Name of persons conducting inspections;
 - c. Accurate findings of inspections, including the specific location where corrective actions are needed;
 - d. Corrective actions taken (including dates, times, and party completing maintenance activities);
 - e. Date of all rainfall events greater than ½ inches in 24 hours, and the amount of rainfall for each event. Permittee(s) must obtain rainfall amounts by either a properly maintained rain gauge installed onsite, a weather station that is within one (1) mile of your location, or a weather reporting system that provides site specific rainfall data from radar summaries;
 - f. If permittee(s) observe a discharge (i.e., color, odor, settled or suspended solids, oil sheen, and other obvious indicators of pollutant(s));
 - g. Any amendments to the SWPPP proposed as a result of the inspection must be documented as required in Section 6 of the general permit within seven (7) calendar days.
3. Where parts of the construction site have undergone final stabilization, but work remains on other parts of the site, inspections of the stabilized areas may be reduced to once per month. Where work has been suspended due to frozen ground conditions, the required inspections and maintenance must take place within 24 hours after runoff occurs at the site or 24 hours prior to resuming construction, whichever occurs first.
4. All erosion prevention and sediment control BMP's must be inspected to ensure integrity and effectiveness. All nonfunctional BMP's must be repaired, replaced, or supplemented with functional BMP's. The permittee(s) must investigate and comply with the following inspection and maintenance requirements:
 - a. All silt fence must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches ½ of the height of the fence. These repairs must be made within 24 hours of discovery, or as soon as field conditions allow access.
 - b. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches ½ the storage volume. Drainage and removal must be completed within 72 hours of discovery, or as soon as field conditions allow access.
 - c. Surface waters, including drainage ditches and conveyance systems, must be inspected for evidence of sediment being deposited by erosion. The permittee(s) must remove all deltas and sediment deposited in surface waters, including drainage ways, catch basins, and other drainage systems, and restabilize the areas where sediment removal results in exposed soil. The removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints. The permittee shall use all reasonable efforts to obtain access. If precluded, removal and stabilization must take place within seven (7) calendar days of obtaining access. The permittee is responsible for contacting all local, regional, state and federal authorities and receiving any applicable permits, prior to conducting any work.
 - d. Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all paved surfaces within 3 hours after notification by the City that sweeping is required.
 - e. The permittee(s) are responsible for the operation and maintenance of temporary and permanent water quality management BMP's as well as all erosion prevention and sediment control BMP's, for the duration of the construction work at the site. The permittee(s) are responsible until another permittee has assumed control over all areas of the site that have not been finally stabilized or the site has undergone final stabilization, and a NOT has been submitted to the MPCA.
 - e. If sediment escapes the construction site, off-site accumulations of sediment must be removed in a manner and at a frequency sufficient to minimize off-site impacts (e.g. fugitive sediment in streets could be washed into storm sewers by the next rain and/or pose a safety hazard to users of public streets).
5. All infiltration areas must be inspected to ensure that no sediment from ongoing construction activities is reaching the infiltration area and these areas are protected from compaction due to construction equipment driving across the infiltration area.
6. Storm sewer pipes and structures to be inspected and cleaned out.

DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Joe Feriancek
JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

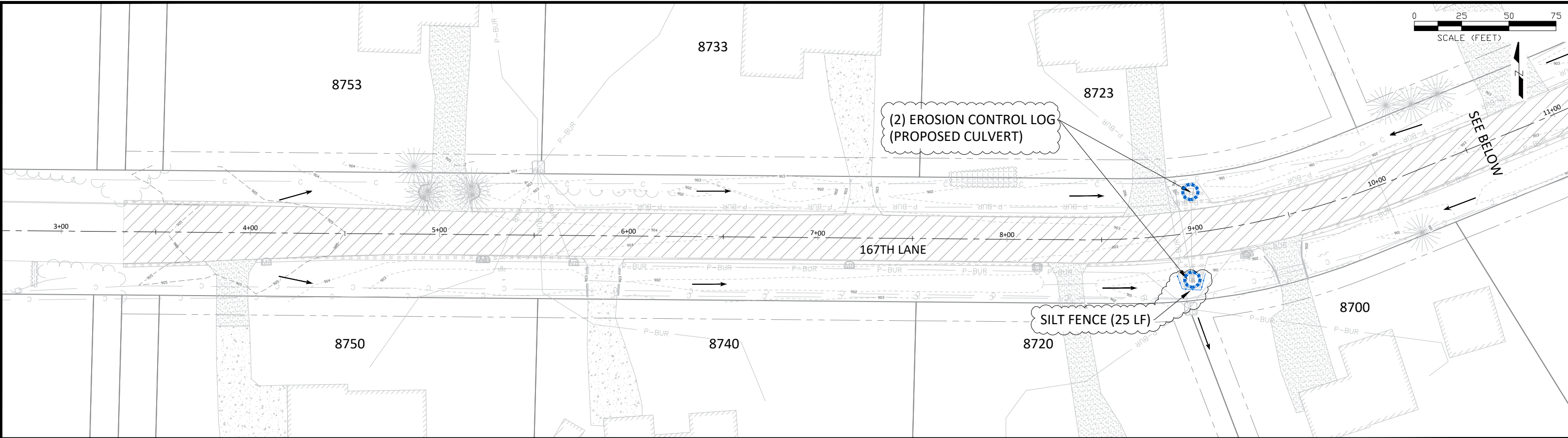
DESIGNED BY:	JJF	DATE:	6/28/22
DRAWN BY:	JJF	FILE:	22-02
CHECKED BY:	JJF		



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

SWPPP

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

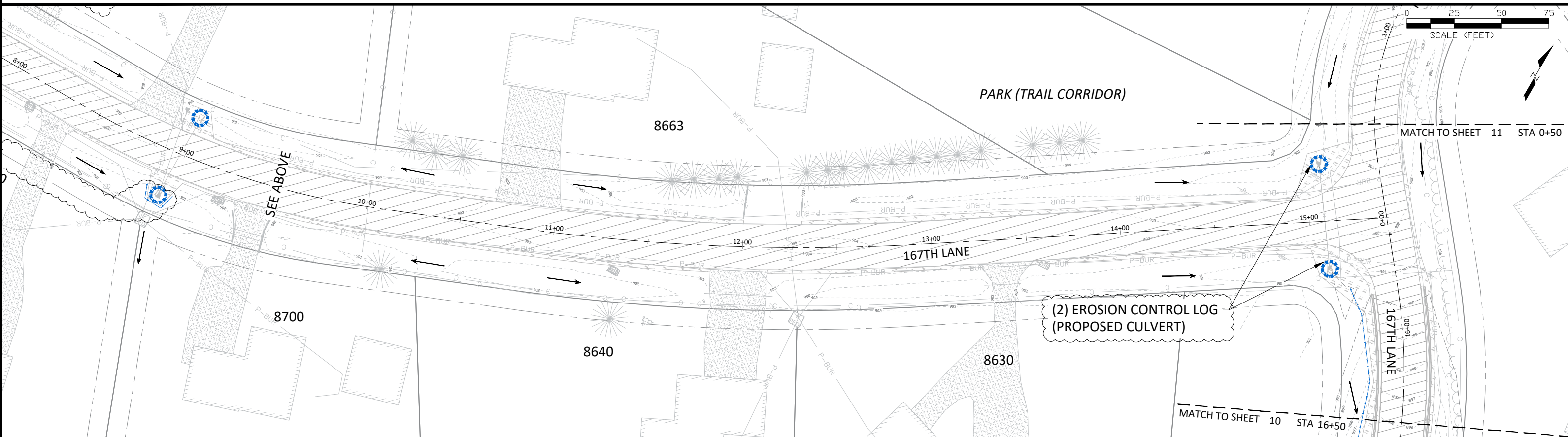


LEGEND

	SILT FENCE		CONSTRUCTION EXIT
	EROSION CONTROL LOG		RIPRAP CLASS III
	DRAINAGE ARROW		

NOTE:

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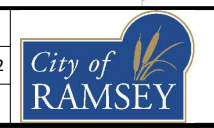
DATE	REVISION
7/20/22	ADD SILT FENCE FOR REPLACE CULVERT

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Joe Feriancek
 JOE FERIANCEK
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DESIGNED BY: JJF
 DRAWN BY: JJF
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DATE: 6/28/22
 FILE: 22-02

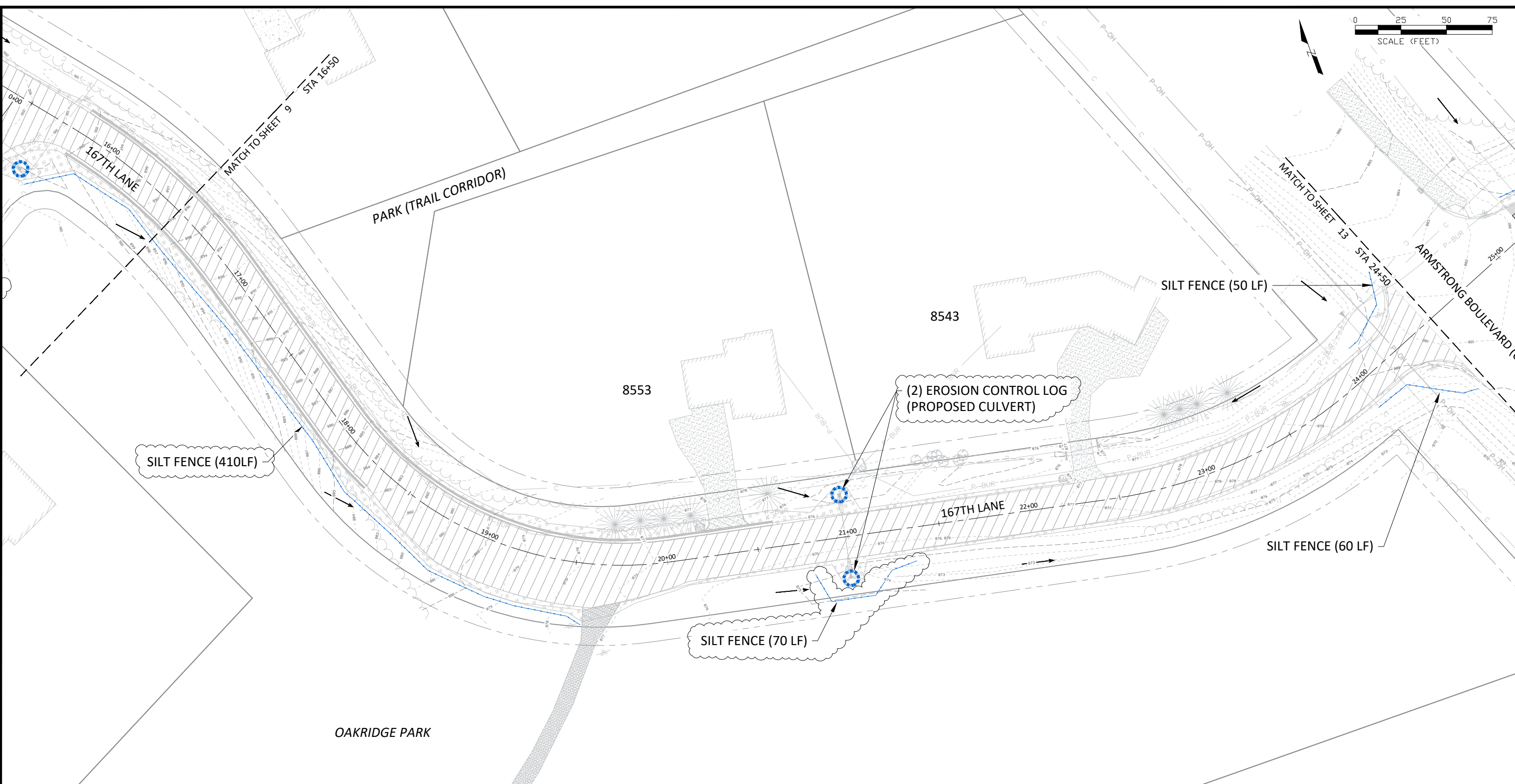


CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

EROSION CONTROL
 167TH LN STA. 0+00 TO 16+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

SHEET 09 OF 60 SHEETS



SILT FENCE (410LF)

(2) EROSION CONTROL LOG
(PROPOSED CULVERT)

SILT FENCE (50 LF)

SILT FENCE (70 LF)


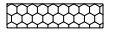


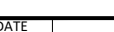
SILT FENCE (60 LF)

OAKRIDGE PARK

NOTE:

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LEGEND

-  CONSTRUCTION EXIT
-  RIPRAP CLASS III
-  DRAINAGE ARROW
-  SILT FENCE
-  EROSION CONTROL LOG

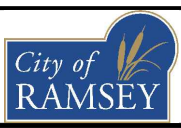
DATE	REVISION
7/20/22	ADD SILT FENCE FOR PROPOSED CULVERT

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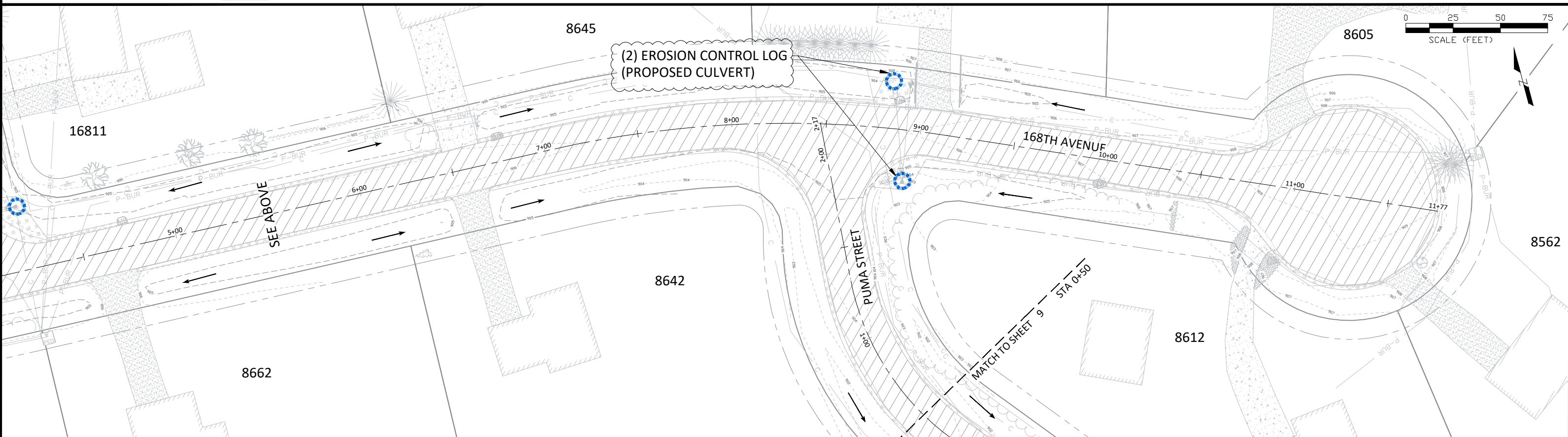
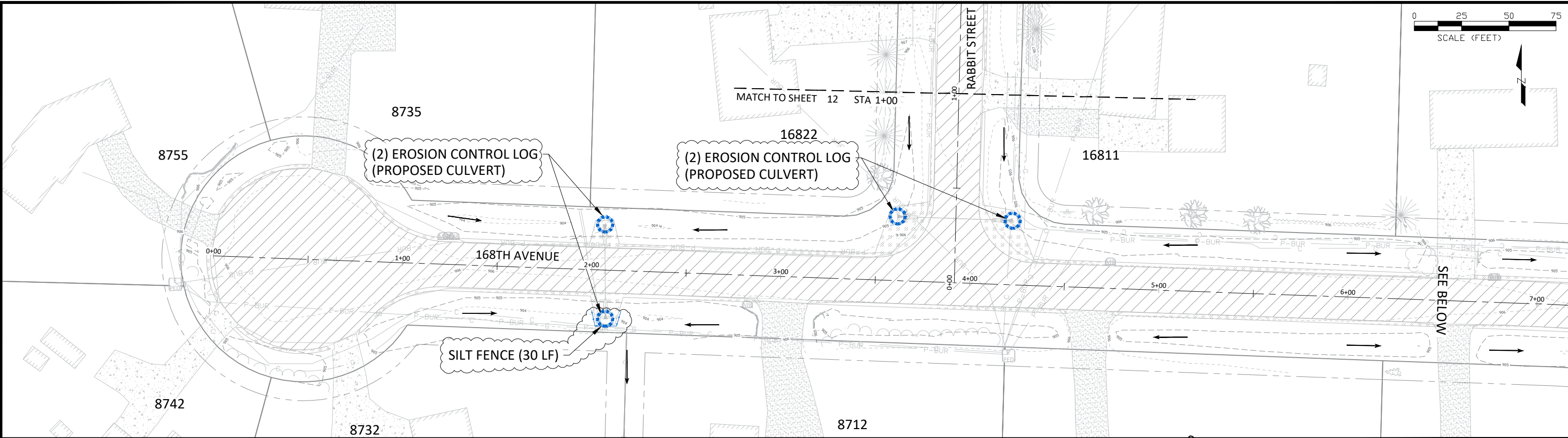
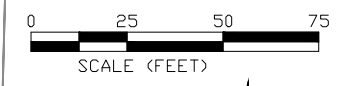
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

EROSION CONTROL
167TH LN STA. 16+50 TO 24+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

- SILT FENCE
- EROSION CONTROL LOG
- CONSTRUCTION EXIT
- RIPRAP CLASS III
- DRAINAGE ARROW

NOTE:

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DATE	REVISION
7/20/22	ADD SILT FENCE FOR REPLACING CULVERT

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JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

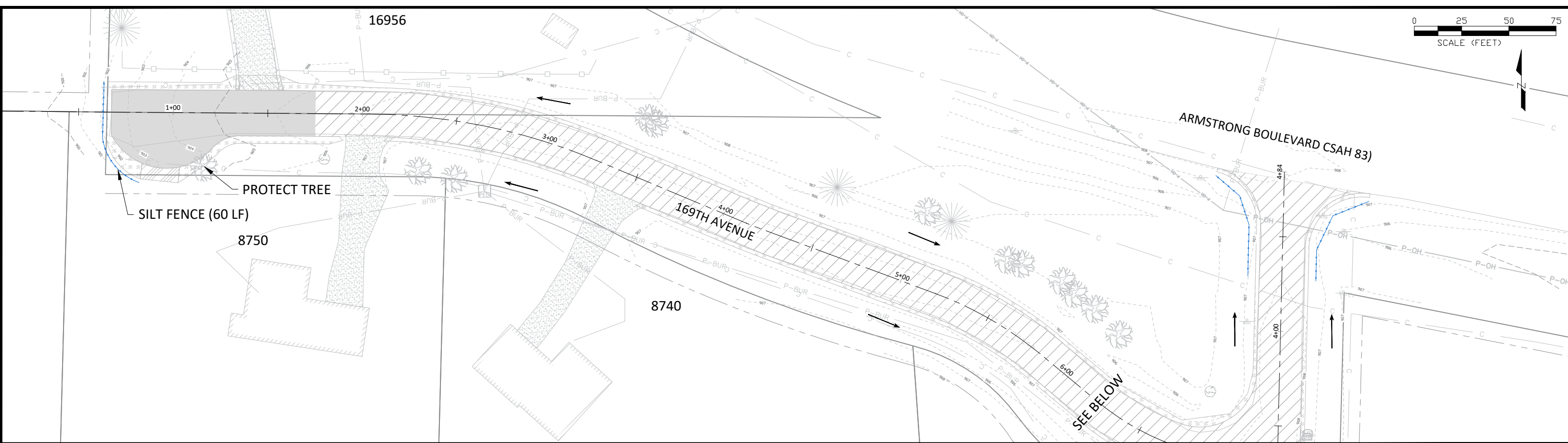
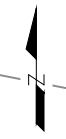
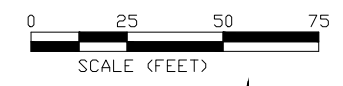
DESIGNED BY:	JJF
DRAWN BY:	JJF
CHECKED BY:	JJF

DATE: 6/28/22
FILE: 22-02

CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

**EROSION CONTROL
 168TH AVENUE**

**AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA**



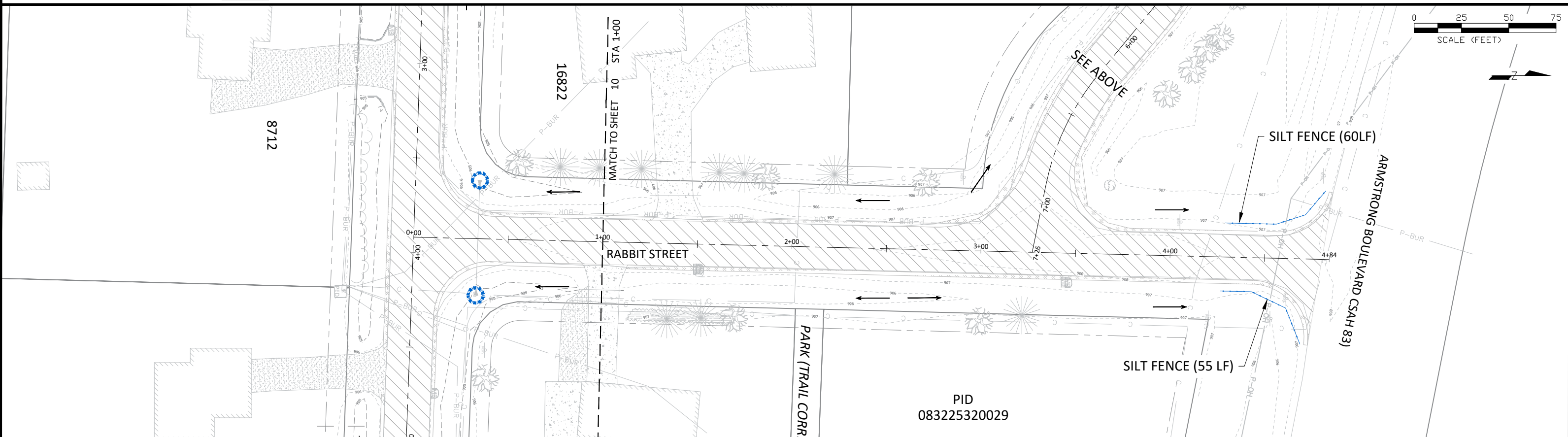
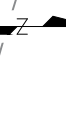
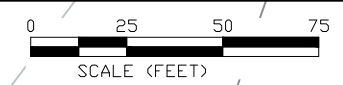
LEGEND

- SILT FENCE
- EROSION CONTROL LOG
- CONSTRUCTION EXIT
- RIPRAP CLASS III
- DRAINAGE ARROW

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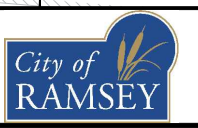
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Joe Feriancek
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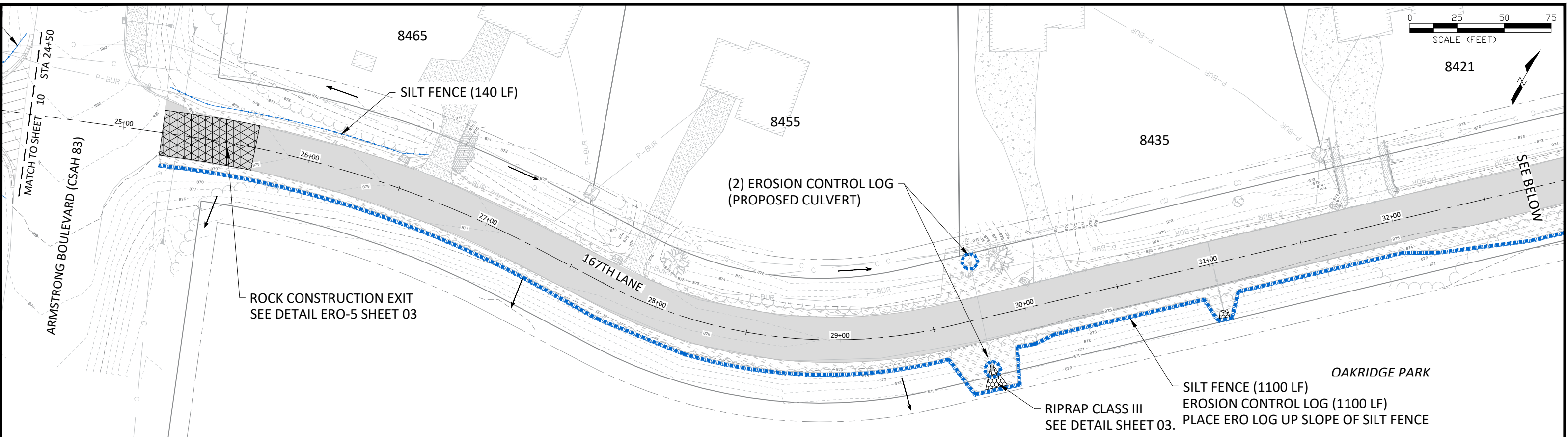
DATE: 6/28/22
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CITY OF RAMSEY
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 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

EROSION CONTROL
RABBIT & 169TH AVENUE

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

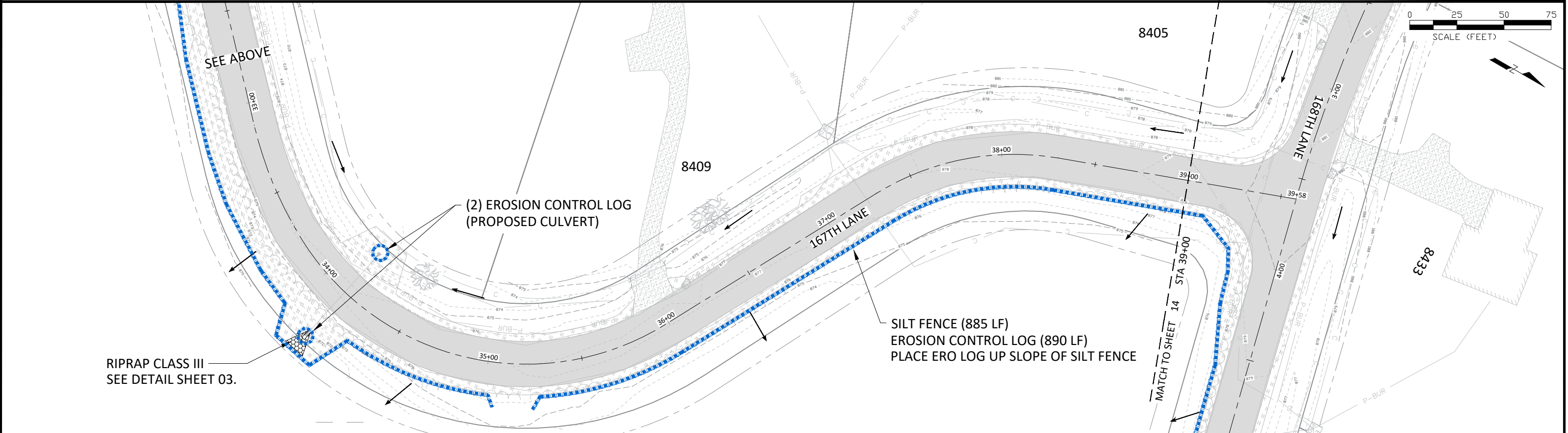


LEGEND

	SILT FENCE		CONSTRUCTION EXIT		DRAINAGE ARROW
	EROSION CONTROL LOG		RIPRAP CLASS III		

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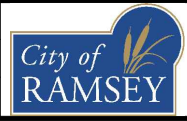
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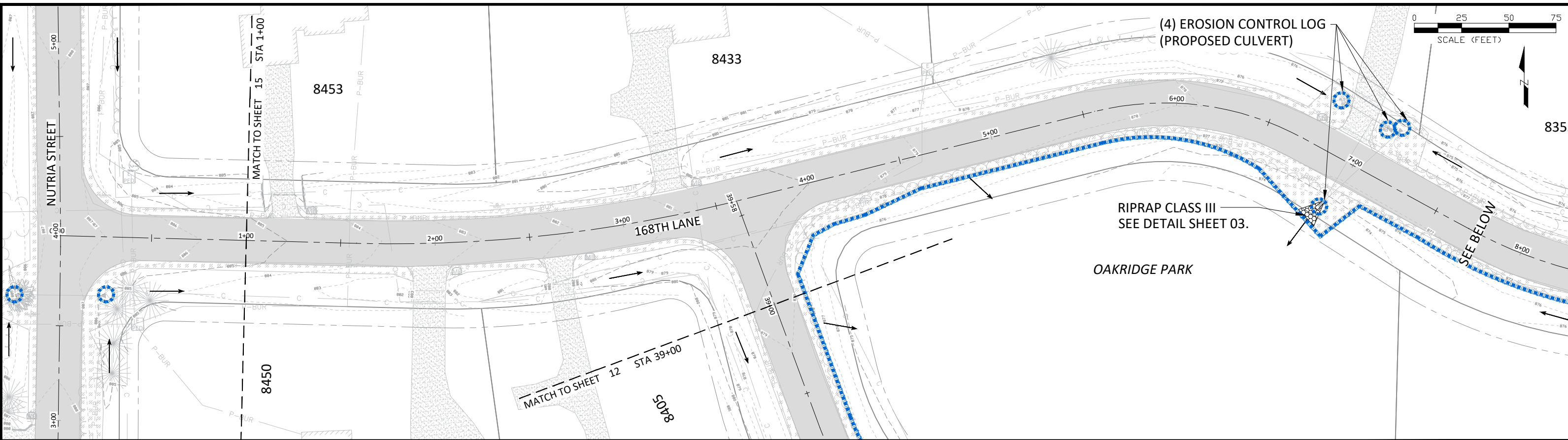
DATE: 6/28/22
 FILE: 22-02



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

EROSION CONTROL
 167TH LN STA. 24+50 TO 39+58

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

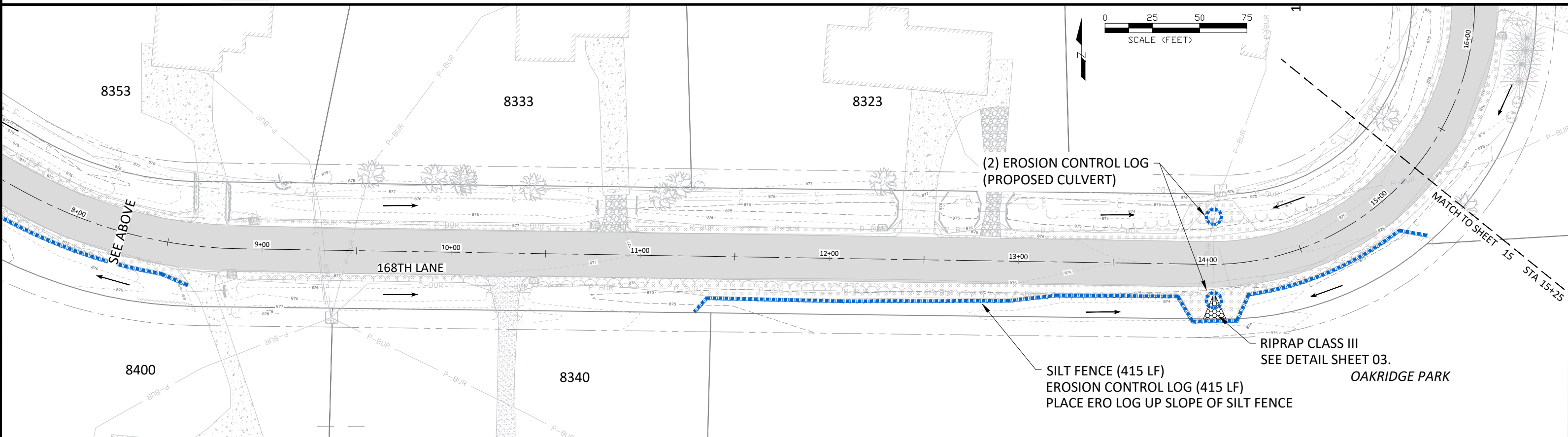


LEGEND

- SILT FENCE
- EROSION CONTROL LOG
- CONSTRUCTION EXIT
- RIPRAP CLASS III
- DRAINAGE ARROW

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Joe Feriancek
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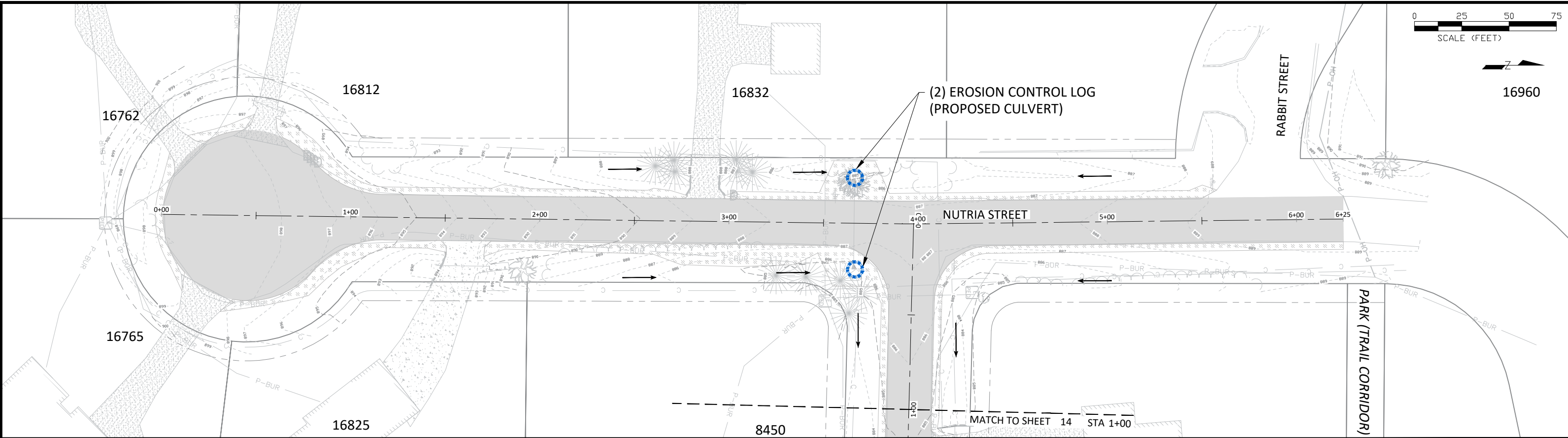
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CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

EROSION CONTROL
 168TH LANE STA. 0+00 TO 15+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

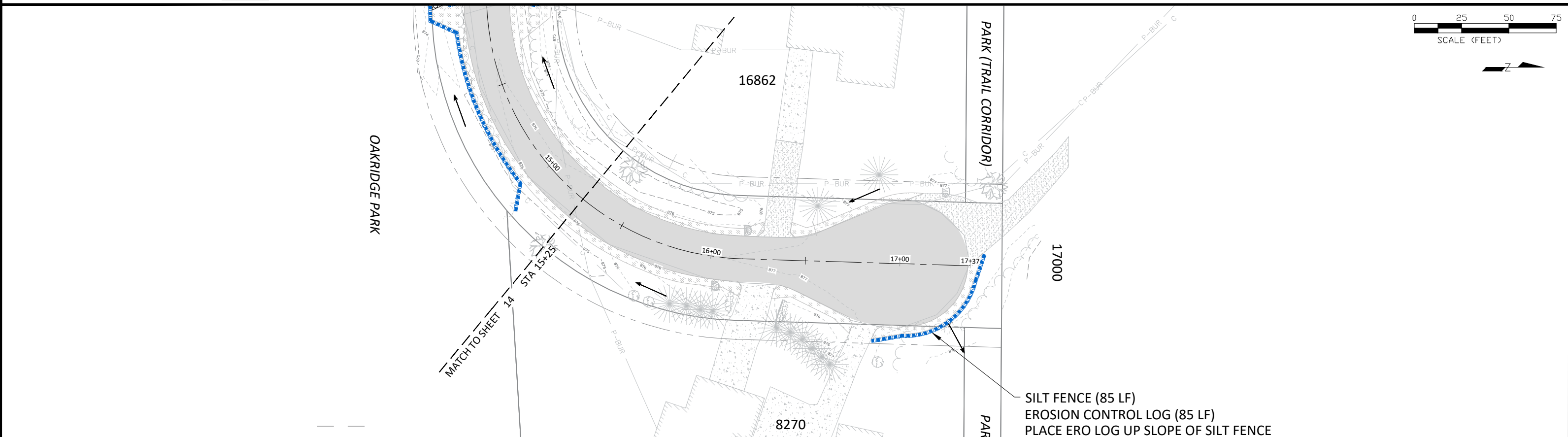


LEGEND

	SILT FENCE		CONSTRUCTION EXIT
	EROSION CONTROL LOG		RIPRAP CLASS III
	DRAINAGE ARROW		

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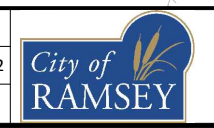
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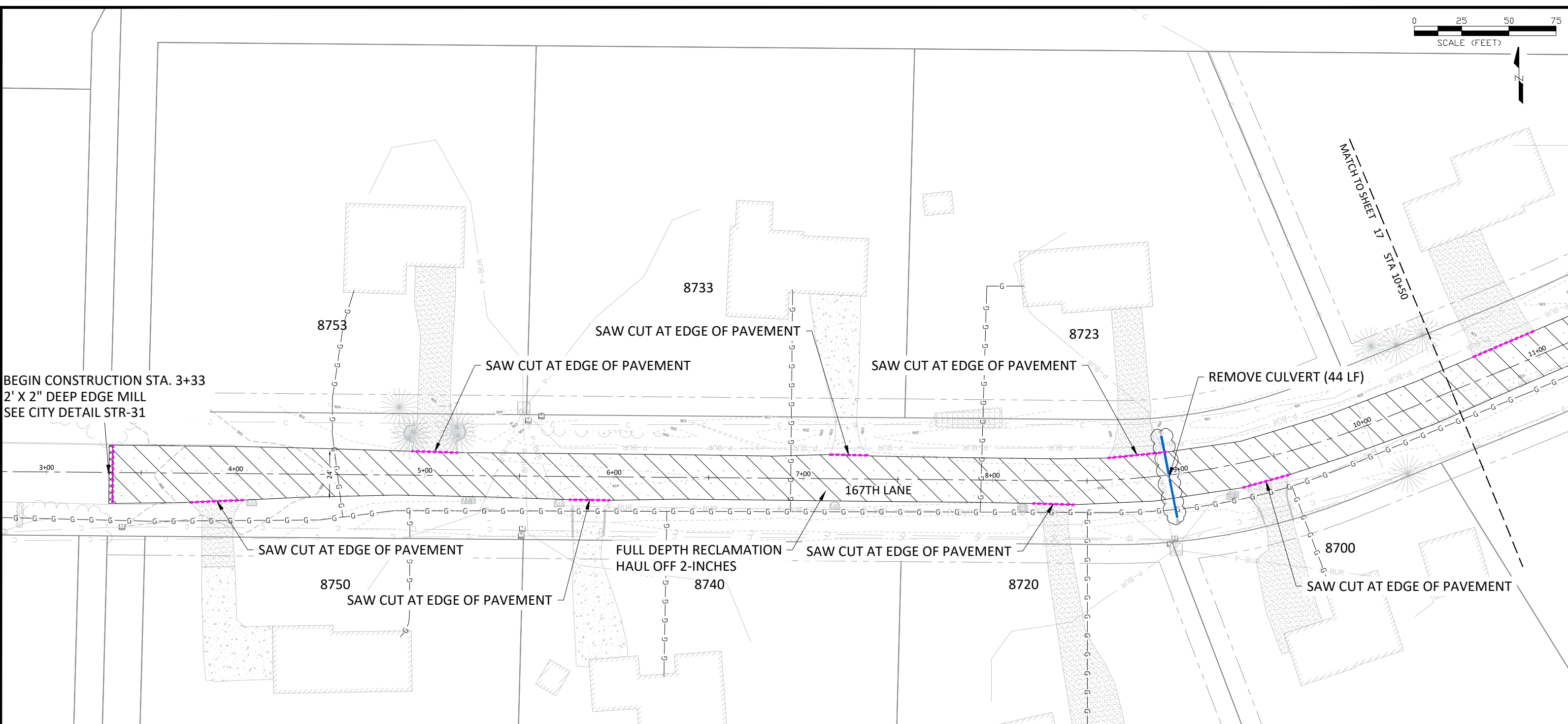
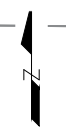
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CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
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EROSION CONTROL
 168TH LN CDS & NUTRIA STREET

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



BEGIN CONSTRUCTION STA. 3+33
2' X 2" DEEP EDGE MILL
SEE CITY DETAIL STR-31

MATCH TO SHEET 17
STA 10+50

LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
	REMOVE PAVEMENT - BITUMINOUS		OVERHEAD POWER LINE
	REMOVE PAVEMENT - CONCRETE		FIBER OPTIC LINE
	REMOVE SURFACE - GRAVEL		COMMUNICATION LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		GAS LINE

NOTE:

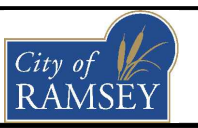
1. REMOVALS WILL BE MARKED IN THE FIELD BY CITY STAFF. ALL REMOVALS MUST BE SAWCUT.
2. CULVERT REMOVAL LENGTH INCLUDES END SECTIONS.
3. PROTECT LANDSCAPING AND IRRIGATION. PROPERTY OWNERS ARE TO LOCATE AND MOVE IRRIGATION BEFORE CONSTRUCTION.
4. EROSION CONTROL MUST BE IN-PLACE PRIOR TO REMOVALS. SEE SHEET 09.

DATE	REVISION
7/20/22	REPLACE CULVERT

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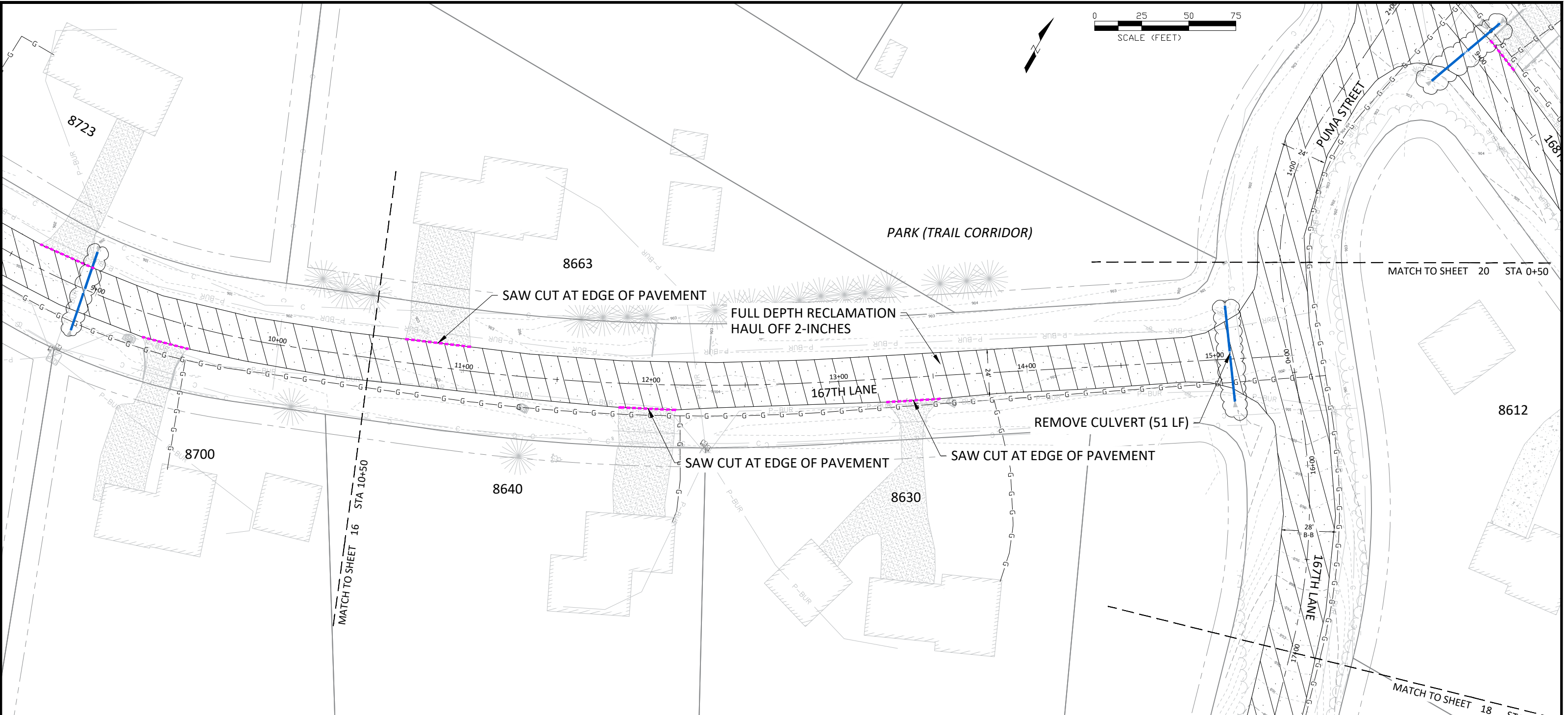
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CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

EXISTING CONDITIONS & REMOVALS
167TH LN STA. 0+00 TO 10+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

- | | | | |
|--|--|--|-------------------------------|
| | REMOVE STORM SEWER | | EASEMENT - DRAINAGE & UTILITY |
| | SAWCUT - FULL DEPTH | | MINOR CONTOUR |
| | REMOVE TREE | | MAJOR CONTOUR |
| | SALVAGE MAILBOX SUPPORT | | LOT LINE |
| | FULL DEPTH RECLAMATION | | OVERHEAD COMMUNICATION LINE |
| | REMOVE PAVEMENT - BITUMINOUS | | OVERHEAD POWER LINE |
| | REMOVE PAVEMENT - CONCRETE | | FIBER OPTIC LINE |
| | REMOVE SURFACE - GRAVEL | | COMMUNICATION LINE |
| | MILL BITUMINOUS PAVEMENT - STREET TIE-IN | | GAS LINE |

NOTE:

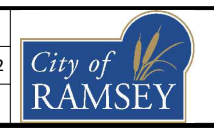
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DATE	REVISION
7/20/22	REPLACE CULVERT

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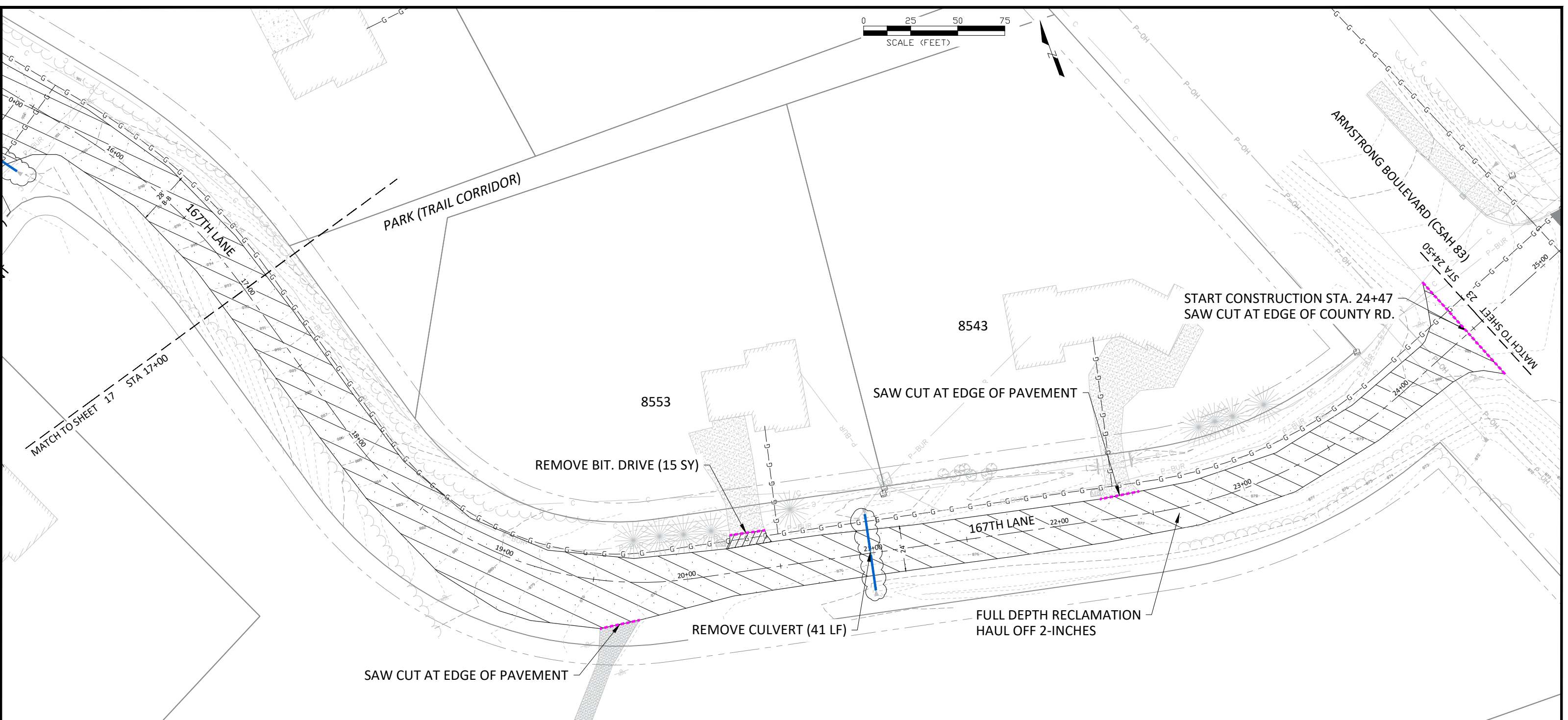
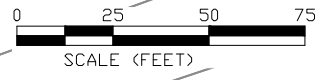
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CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

EXISTING CONDITIONS & REMOVALS
 167TH LN STA. 10+50 TO 17+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
	REMOVE PAVEMENT - BITUMINOUS		OVERHEAD POWER LINE
	REMOVE PAVEMENT - CONCRETE		FIBER OPTIC LINE
	REMOVE SURFACE - GRAVEL		COMMUNICATION LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		GAS LINE

NOTE:

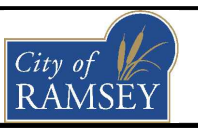
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4. EROSION CONTROL MUST BE IN-PLACE PRIOR TO REMOVALS. SEE SHEET 10.

DATE	REVISION
7/20/22	REPLACE CULVERT

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Joe Feriancek
 JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

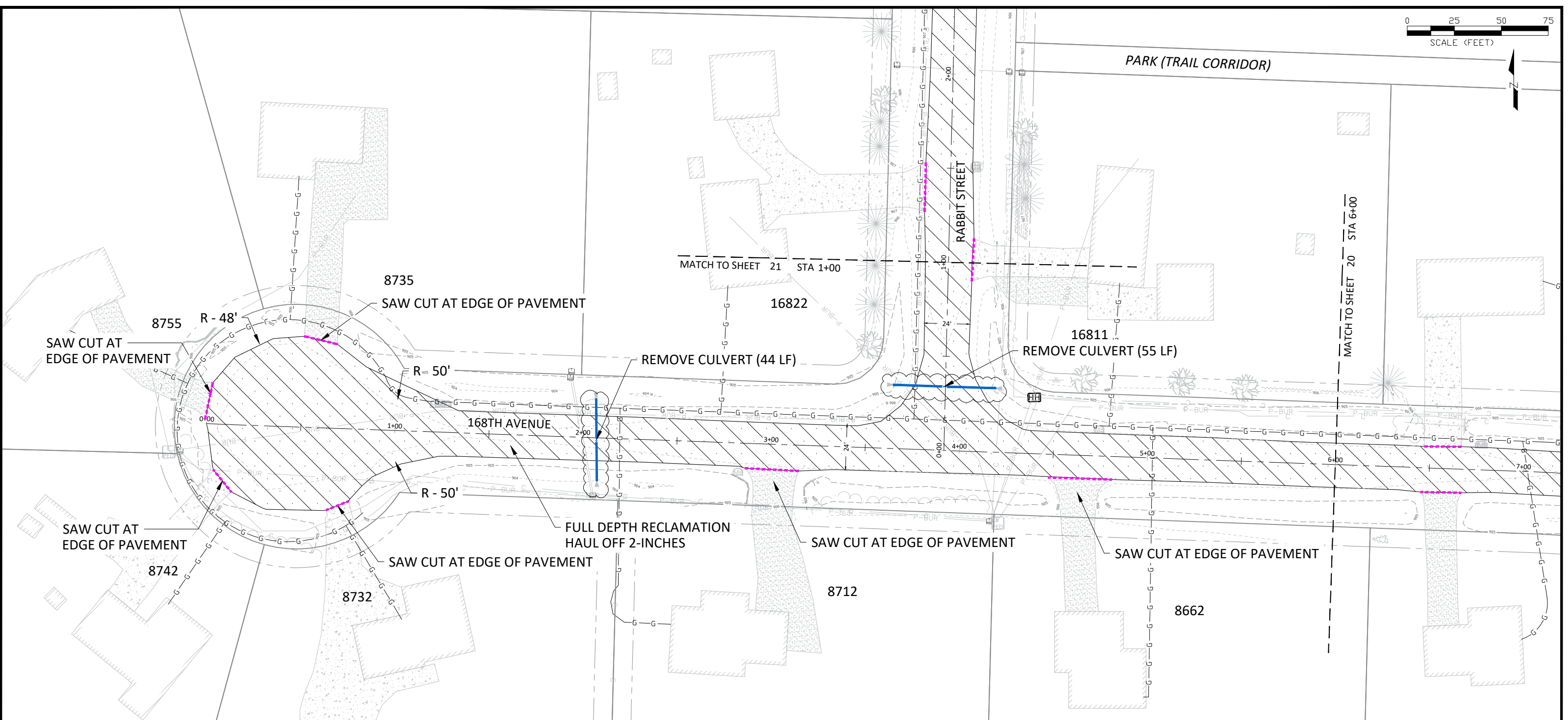
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DRAWN BY:	JJF
CHECKED BY:	JJF
DATE:	6/28/22
FILE:	22-02



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

EXISTING CONDITIONS & REMOVALS
 167TH LN STA. 17+00 TO 24+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
	REMOVE PAVEMENT - BITUMINOUS		OVERHEAD POWER LINE
	REMOVE PAVEMENT - CONCRETE		FIBER OPTIC LINE
	REMOVE SURFACE - GRAVEL		COMMUNICATION LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		GAS LINE

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7/20/22	REPLACE CULVERT

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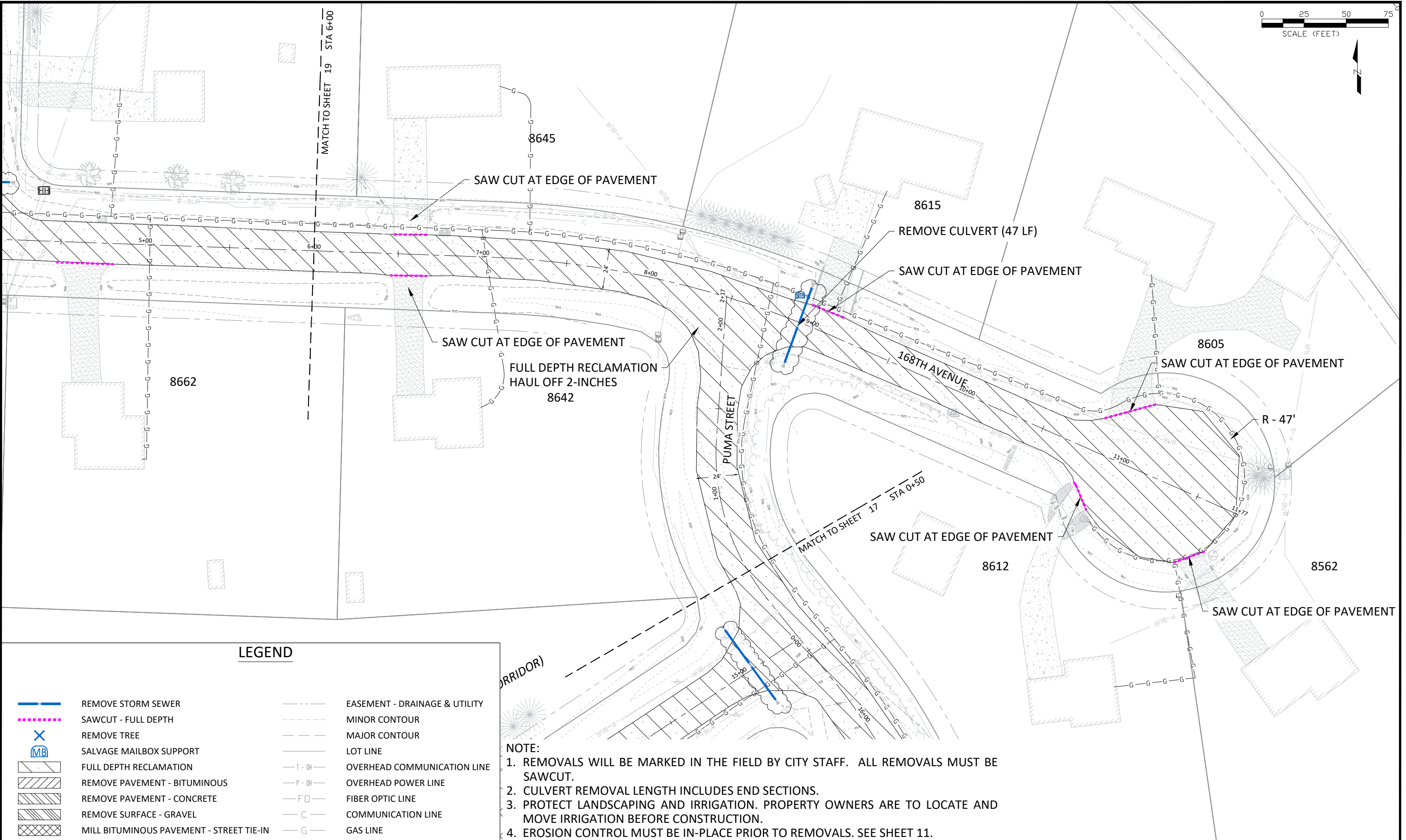
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CITY OF RAMSEY
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RAMSEY, MN 55303
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EXISTING CONDITIONS & REMOVALS
168TH AVE STA. 0+00 TO 6+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

- | | | | |
|--|--|--|-------------------------------|
| | REMOVE STORM SEWER | | EASEMENT - DRAINAGE & UTILITY |
| | SAWCUT - FULL DEPTH | | MINOR CONTOUR |
| | REMOVE TREE | | MAJOR CONTOUR |
| | SALVAGE MAILBOX SUPPORT | | LOT LINE |
| | FULL DEPTH RECLAMATION | | OVERHEAD COMMUNICATION LINE |
| | REMOVE PAVEMENT - BITUMINOUS | | OVERHEAD POWER LINE |
| | REMOVE PAVEMENT - CONCRETE | | FIBER OPTIC LINE |
| | REMOVE SURFACE - GRAVEL | | COMMUNICATION LINE |
| | MILL BITUMINOUS PAVEMENT - STREET TIE-IN | | GAS LINE |

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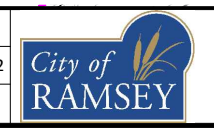
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7/20/22	REPLACE CULVERT

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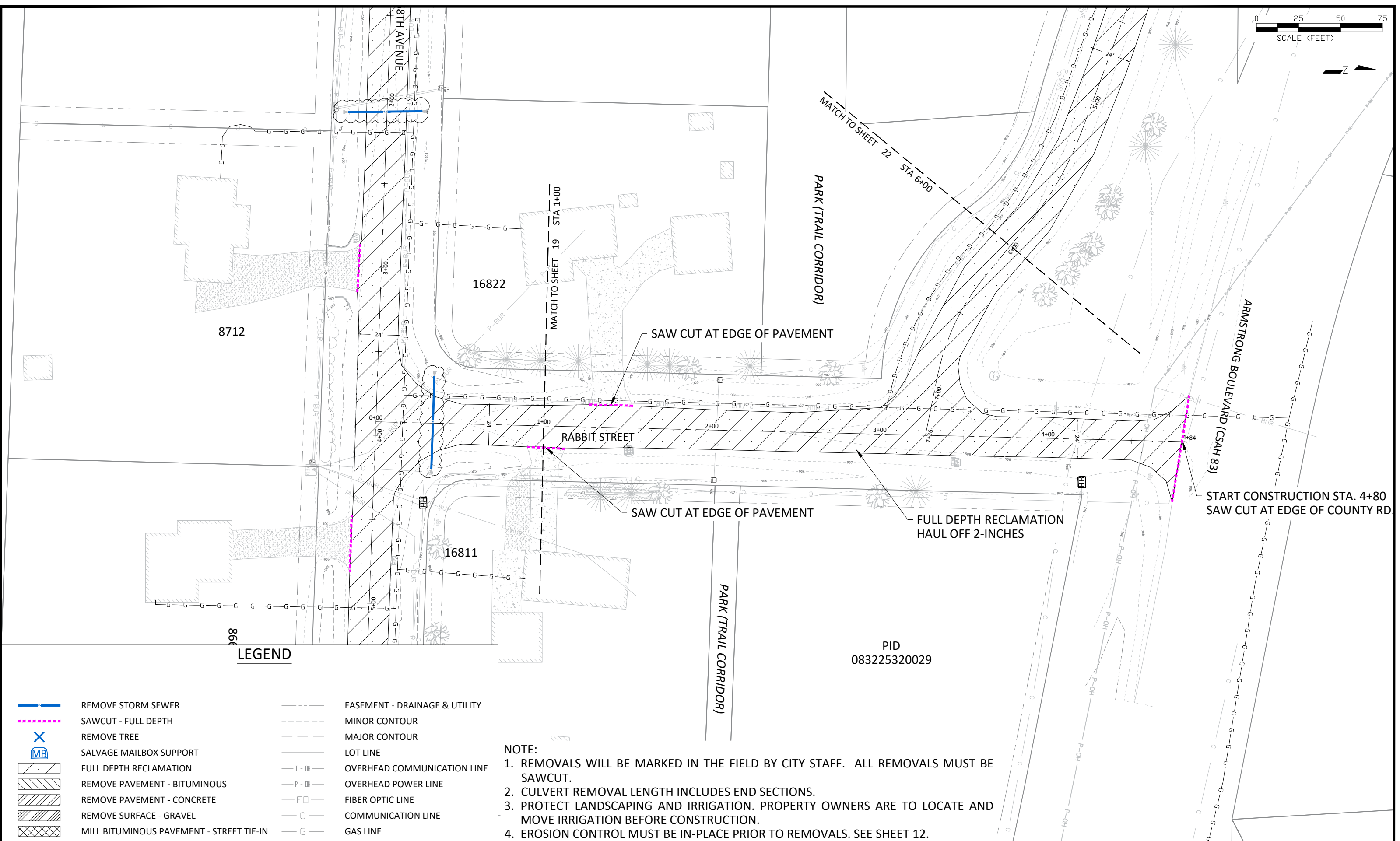
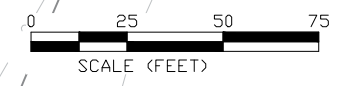
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CITY OF RAMSEY
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EXISTING CONDITIONS & REMOVALS
168TH AVE STA. 6+00 TO 11+77

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
	REMOVE PAVEMENT - BITUMINOUS		OVERHEAD POWER LINE
	REMOVE PAVEMENT - CONCRETE		FIBER OPTIC LINE
	REMOVE SURFACE - GRAVEL		COMMUNICATION LINE
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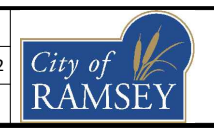
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CITY OF RAMSEY
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EXISTING CONDITIONS & REMOVALS
 RABBIT STREET

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



REMOVE BIT PAVEMENT (300 SY)
 REMOVE CONC. DRIVE (2 SY)
 REMOVE BIT. DRIVE (19 SY)

FULL DEPTH RECLAMATION
 HAUL OFF 2-INCHES

ARMSTRONG BOULEVARD (CSAH 83)

PROTECT TREE

SAW CUT AT EDGE OF PAVEMENT

169TH AVENUE

SAWCUT AT EDGE OF PAVEMENT

8750

REMOVE GRAVEL DRIVE (47 SY)

8740

MATCH TO SHEET 21 STA 6+00

PARK (TRAIL CORRIDOR)

PID
083225320029

LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
	REMOVE PAVEMENT - BITUMINOUS		OVERHEAD POWER LINE
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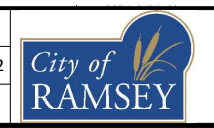
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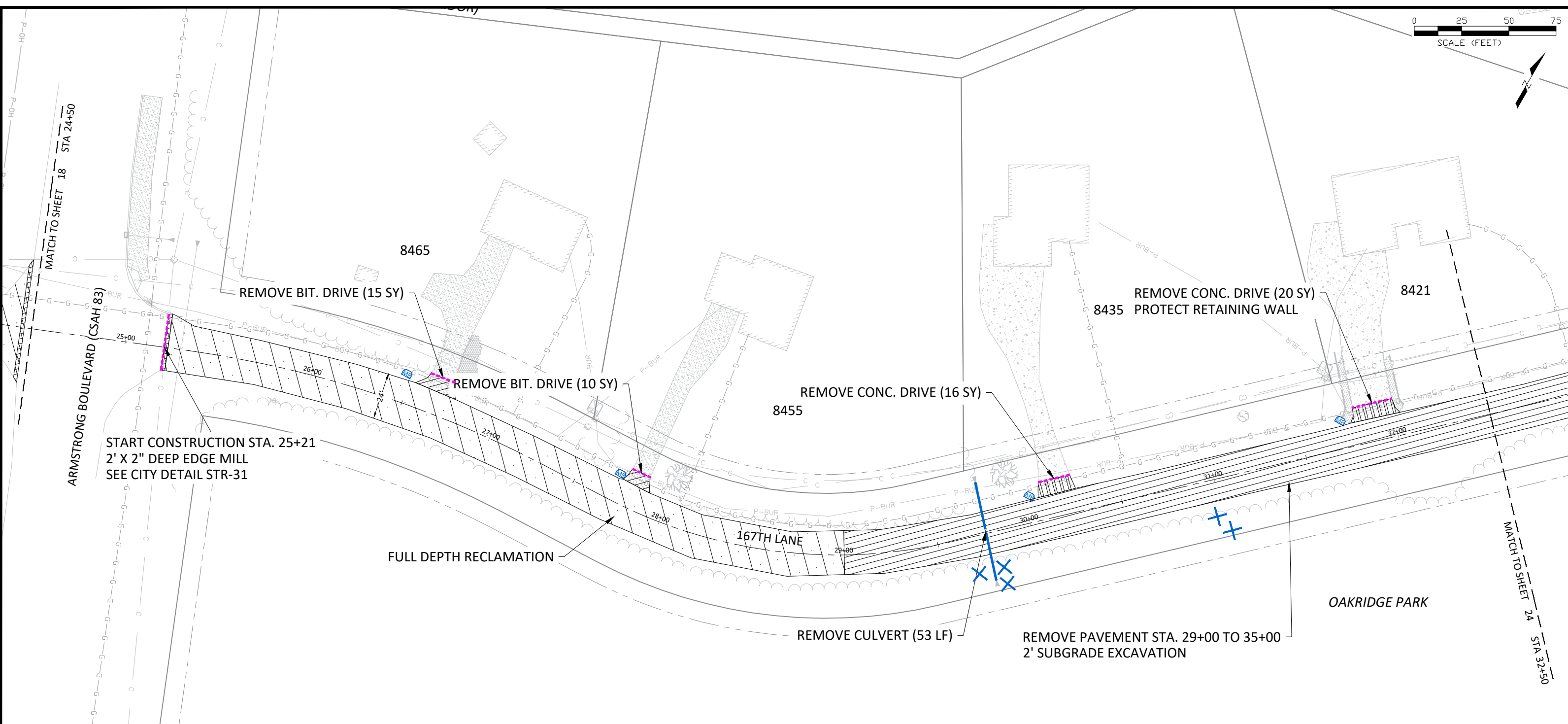
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EXISTING CONDITIONS & REMOVALS
 169TH AVENUE

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

- | | | | |
|--|--|--|-------------------------------|
| | REMOVE STORM SEWER | | EASEMENT - DRAINAGE & UTILITY |
| | SAWCUT - FULL DEPTH | | MINOR CONTOUR |
| | REMOVE TREE | | MAJOR CONTOUR |
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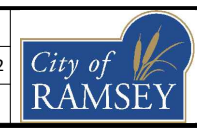
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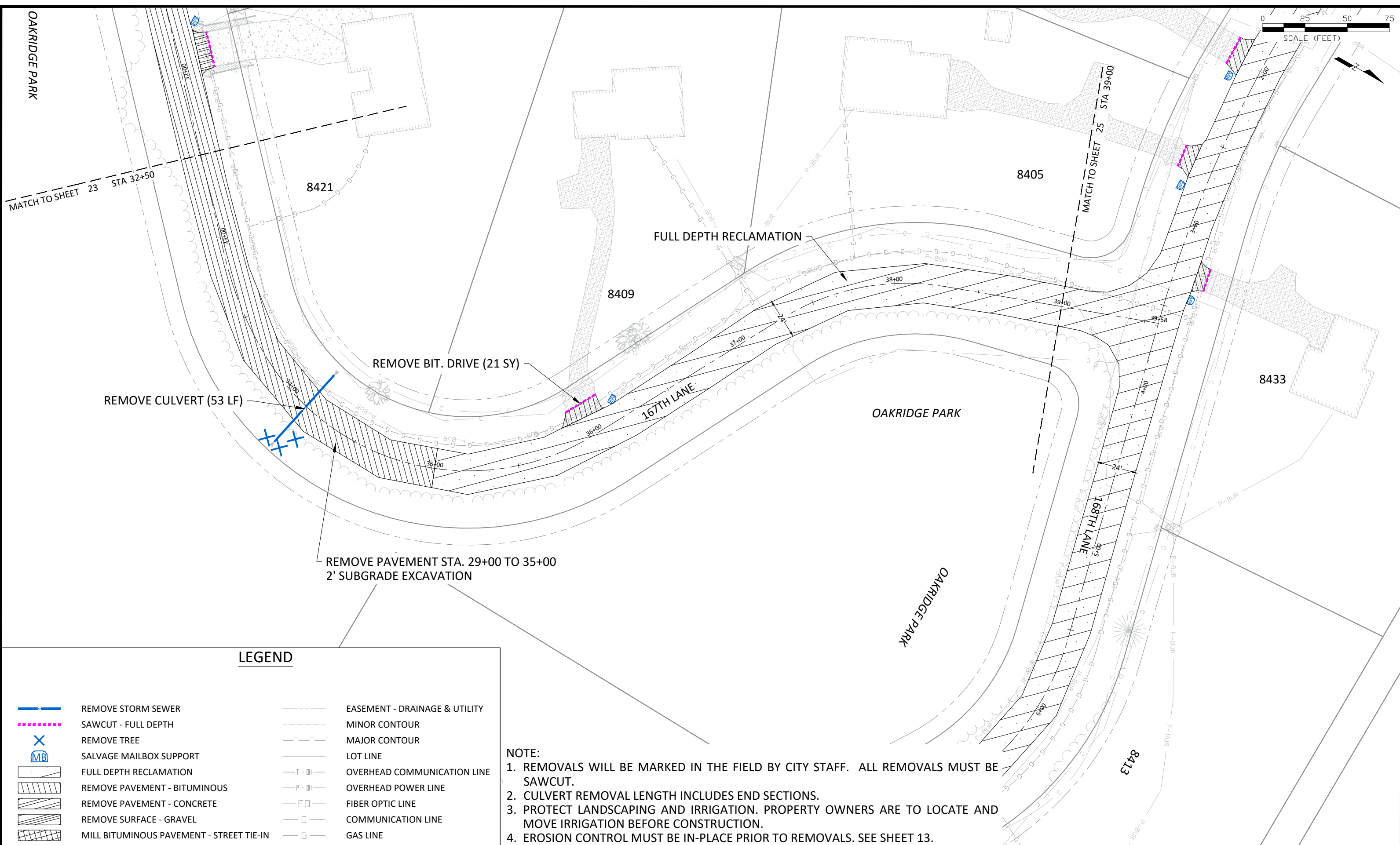
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CITY OF RAMSEY
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EXISTING CONDITIONS & REMOVALS
167TH LN STA. 25+00 TO 32+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

- | | | | |
|--|--|--|-------------------------------|
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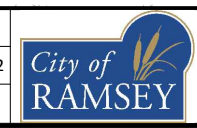
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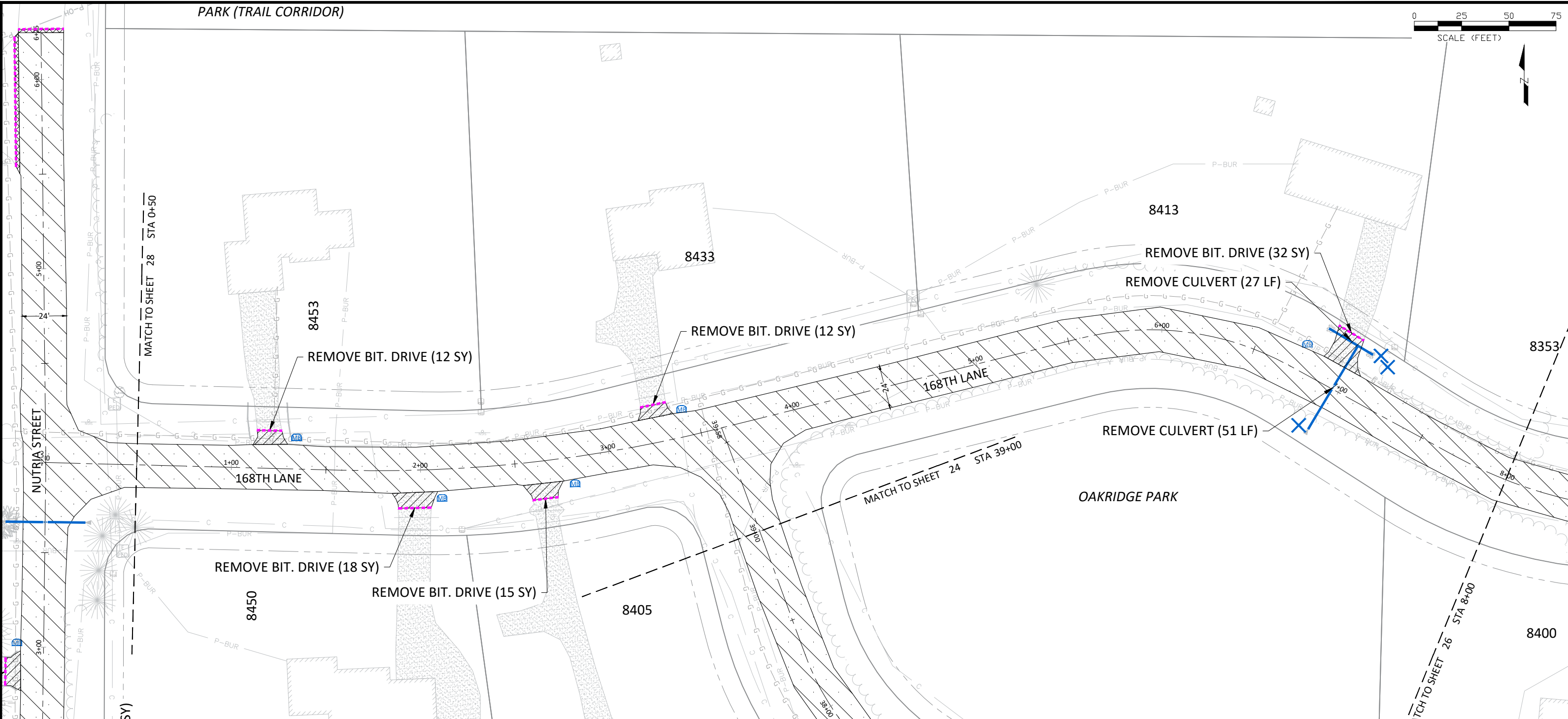
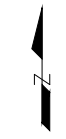
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CITY OF RAMSEY
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 RAMSEY, MN 55303
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EXISTING CONDITIONS & REMOVALS
 167TH LN STA. 32+50 TO 39+58

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
	REMOVE PAVEMENT - BITUMINOUS		OVERHEAD POWER LINE
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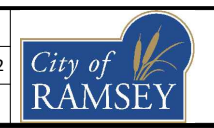
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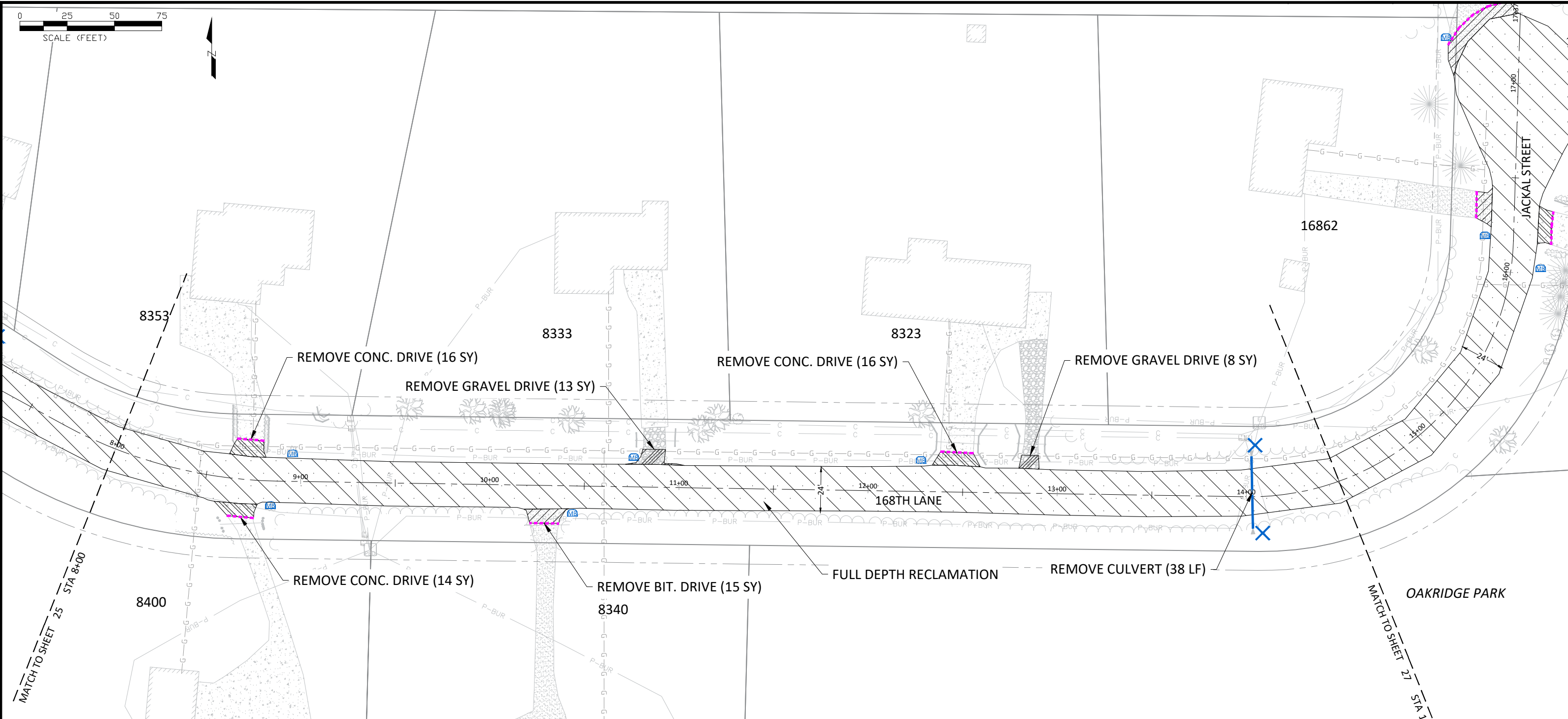
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CITY OF RAMSEY
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RAMSEY, MN 55303
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EXISTING CONDITIONS & REMOVALS
168TH LN STA. 0+00 TO 8+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
	REMOVE PAVEMENT - BITUMINOUS		OVERHEAD POWER LINE
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	REMOVE SURFACE - GRAVEL		COMMUNICATION LINE
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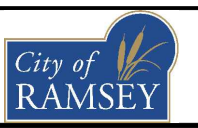
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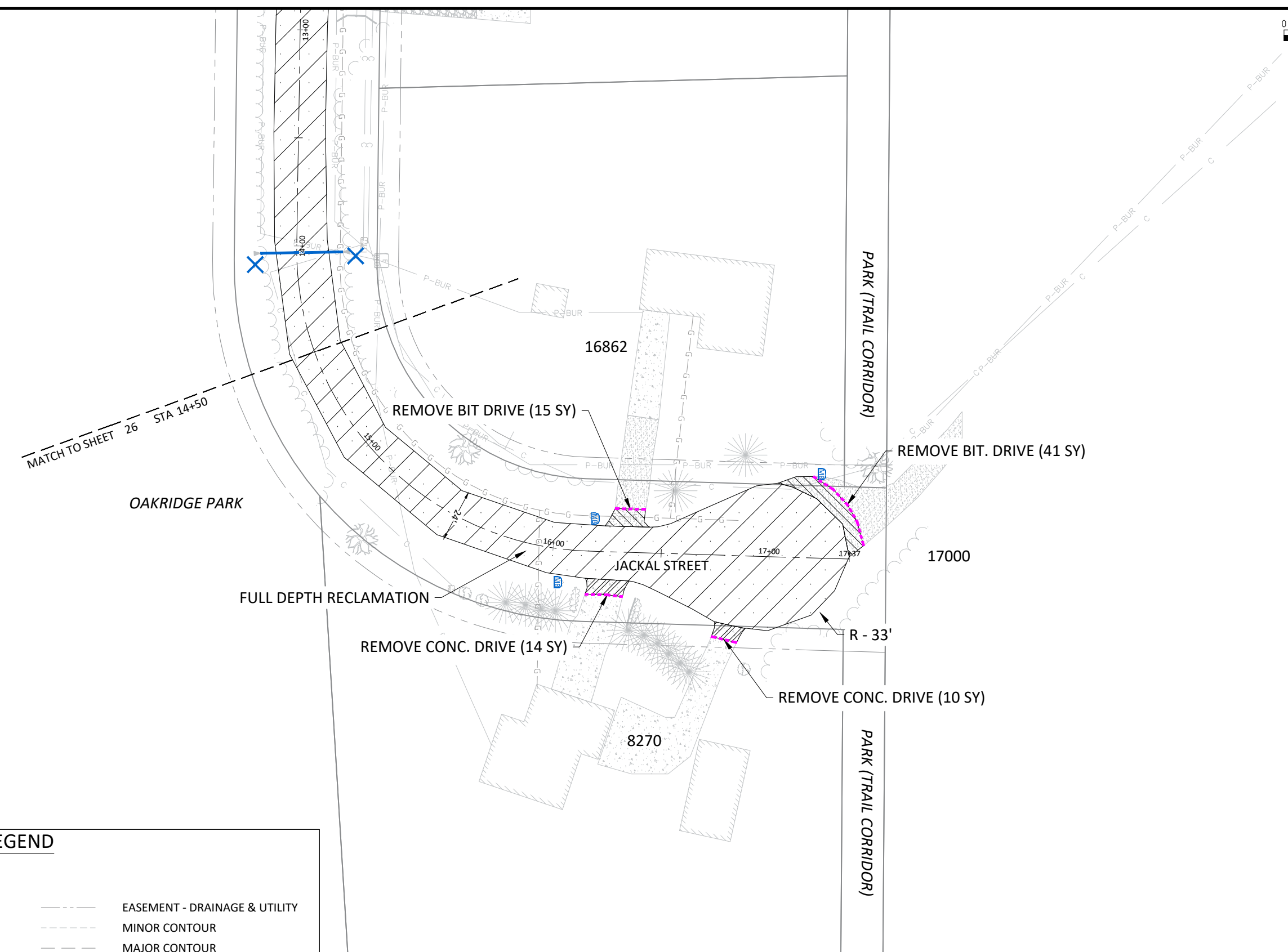
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CITY OF RAMSEY
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 RAMSEY, MN 55303
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EXISTING CONDITIOINS & REMOVALS
 168TH LN STA. 8+00 TO 14+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
	SAWCUT - FULL DEPTH		MINOR CONTOUR
	REMOVE TREE		MAJOR CONTOUR
	SALVAGE MAILBOX SUPPORT		LOT LINE
	FULL DEPTH RECLAMATION		OVERHEAD COMMUNICATION LINE
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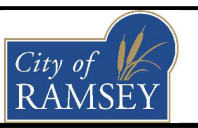
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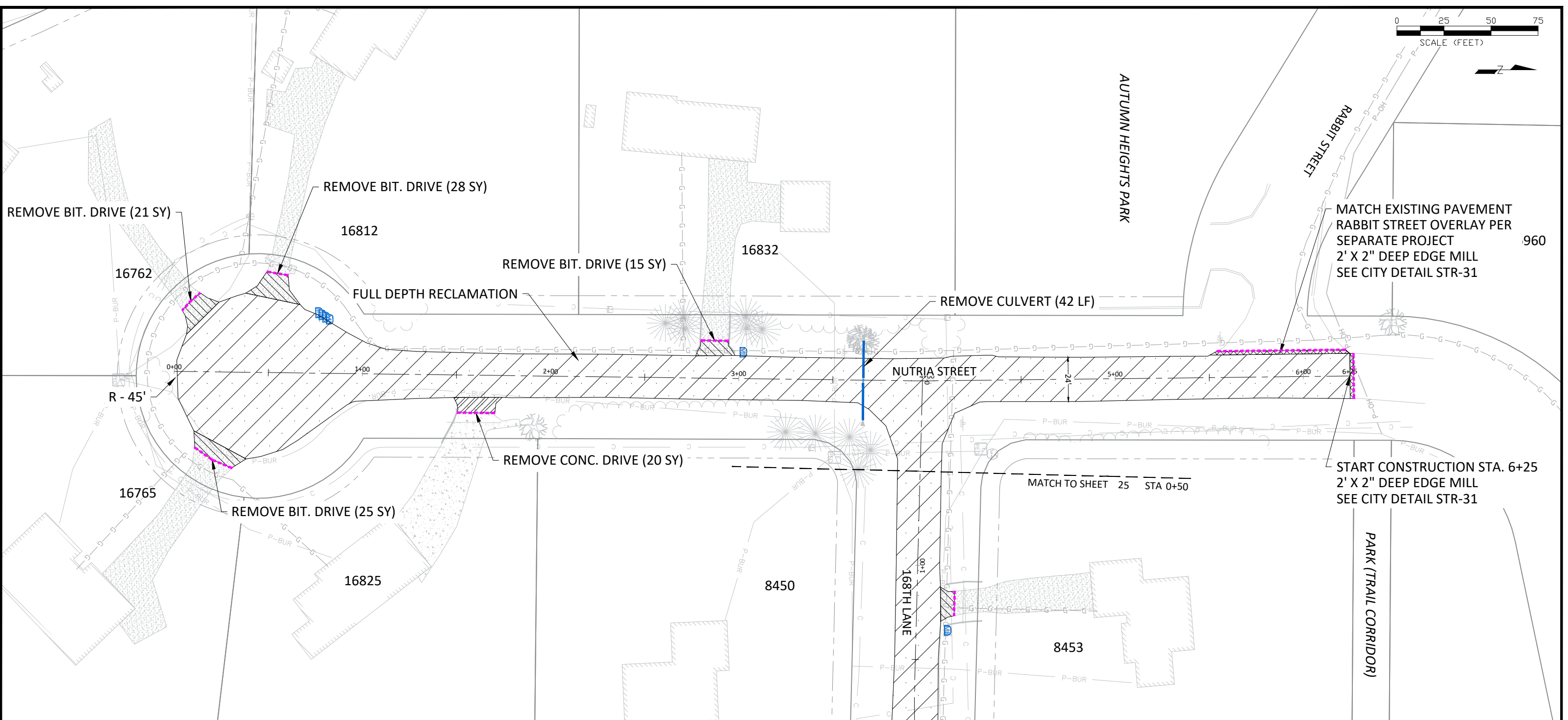
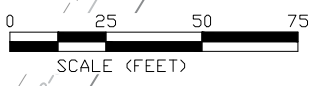
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EXISTING CONDITIONS &
REMOVALS 168TH LN STA. 14+50
TO 17+37

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

	REMOVE STORM SEWER		EASEMENT - DRAINAGE & UTILITY
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	REMOVE TREE		MAJOR CONTOUR
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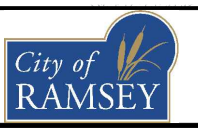
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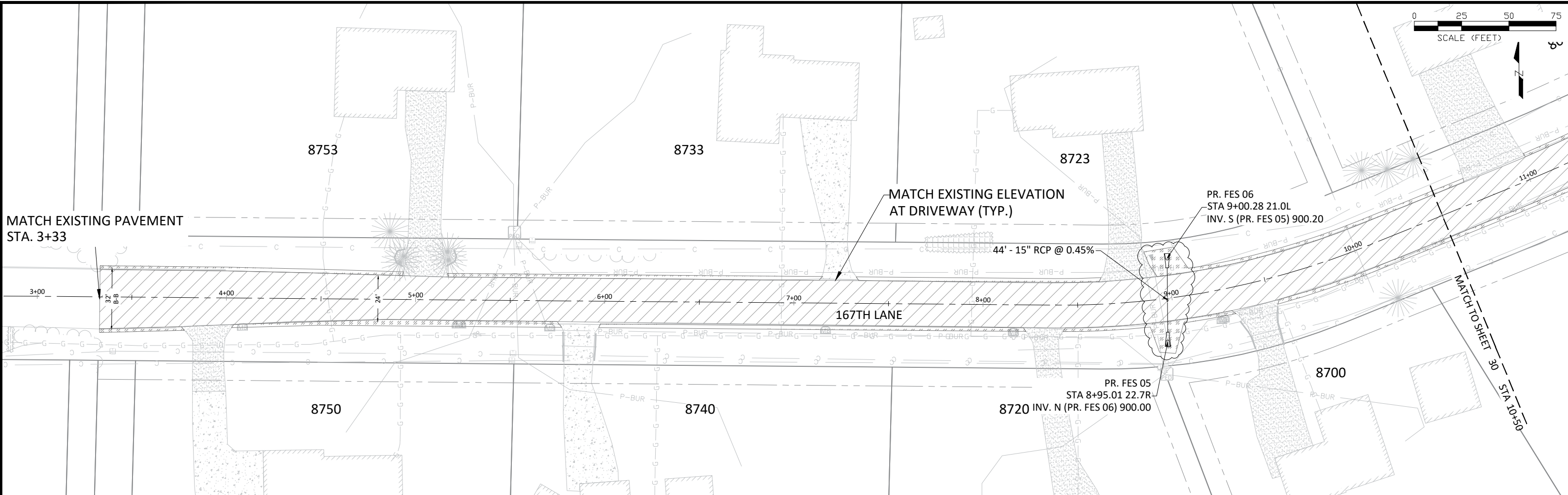
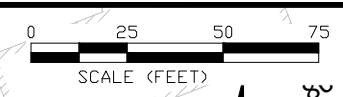
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CITY OF RAMSEY
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EXISTING CONDITIONS &
 REMOVALS NUTRIA STREET

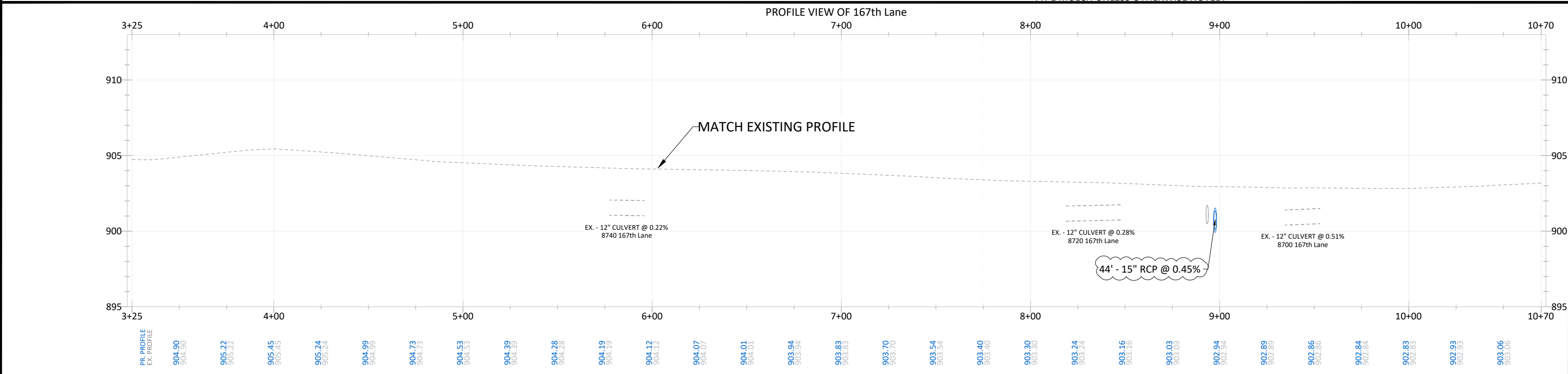
AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND			
	BIT PAVEMENT - FULL SECTION		PR. DRAIN TILE
	BIT PAVEMENT - 2" WEAR		PR. STORM SEWER
	NEW DRIVEWAY - CONCRETE		PR. FLARED END SECTION
	NEW DRIVEWAY - GRAVEL		B418 CURB & GUTTER
	NEW DRIVEWAY - BITUMINOUS		RIPRAP CLASS III
			SEEDING AREA

NOTE:

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4. RESTORE ALL DISTURBED AREAS WITH 2" TOPSOIL, HYDROSEED, MNDOT SEED MIX 25-151, AND HYDRAULIC MATRIX TYPE MULCH UNLESS OTHERWISE NOTED.



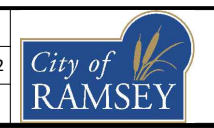
DATE	REVISION
7/20/22	REPLACE CULVERT

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Joe Feriancek
 JOE FERIANCEK
 Date 7/7/22 Lic. No. 57095

DESIGNED BY: JJF
 DRAWN BY: JJF
 CHECKED BY: JJF

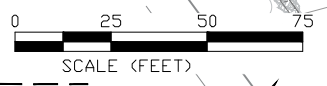
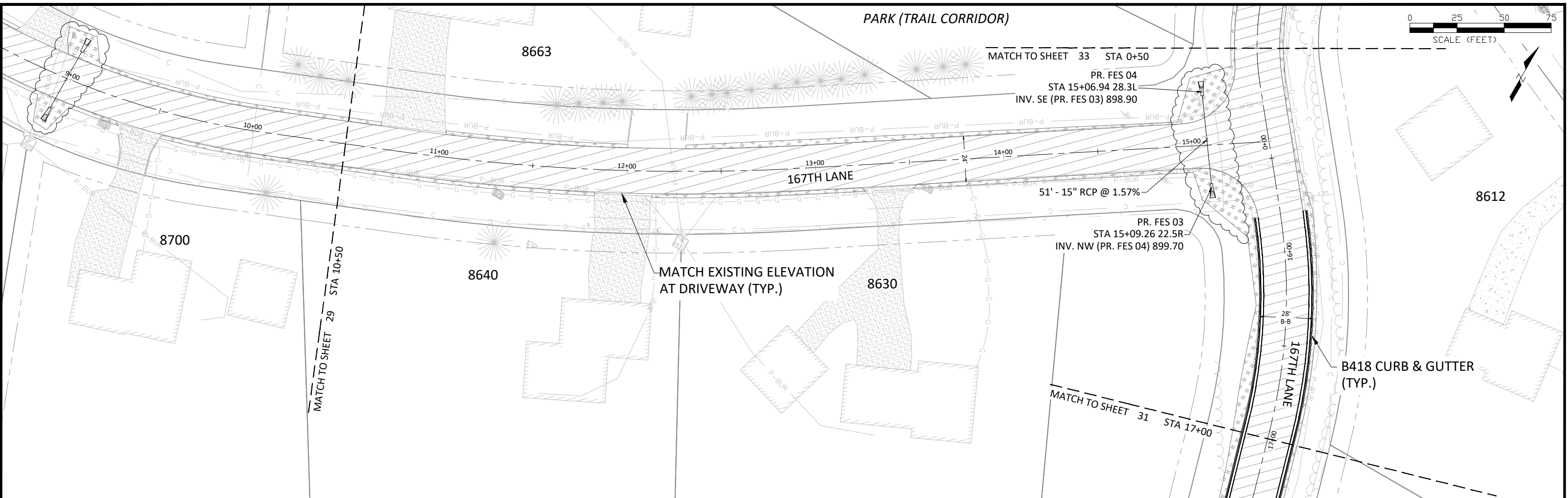
DATE: 6/28/22
 FILE: 22-02



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

STREET & STORM SEWER
167TH LN STA. 0+00 TO 10+50

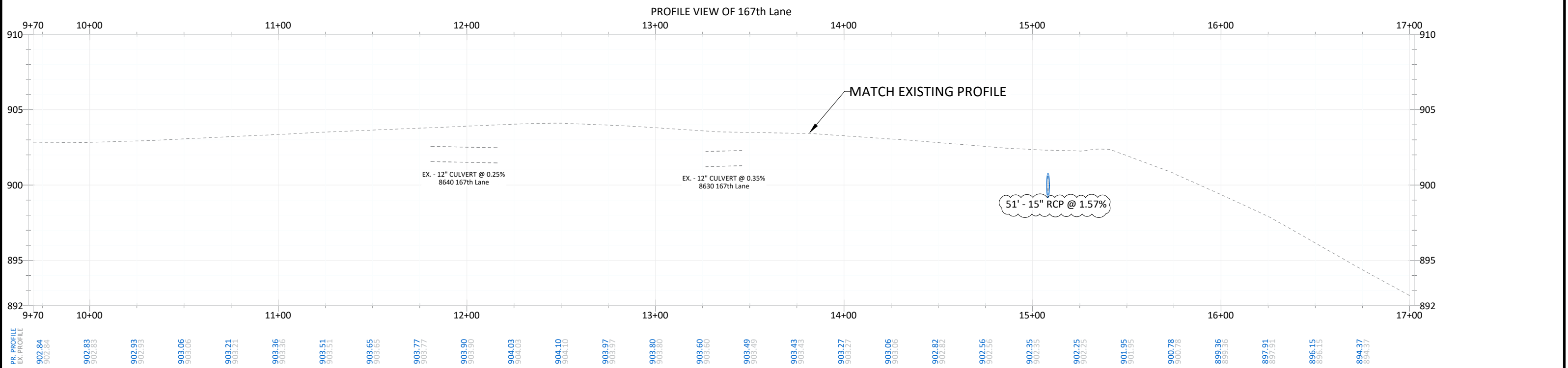
AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

- BIT PAVEMENT - FULL SECTION
- NEW DRIVEWAY - CONCRETE
- PR. DRAIN TILE
- B418 CURB & GUTTER
- NEW DRIVEWAY - GRAVEL
- PR. STORM SEWER
- RIPRAP CLASS III
- NEW DRIVEWAY - BITUMINOUS
- PR. FLARED END SECTION
- SEEDING AREA

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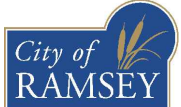
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902.83	902.83
902.93	902.93
903.06	903.06
903.21	903.21
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903.51	903.51
903.65	903.65
903.77	903.77
903.90	903.90
904.03	904.03
904.10	904.10
903.97	903.97
903.80	903.80
903.60	903.60
903.49	903.49
903.43	903.43
903.27	903.27
903.06	903.06
902.82	902.82
902.56	902.56
902.35	902.35
902.25	902.25
901.95	901.95
900.78	900.78
899.36	899.36
897.91	897.91
896.15	896.15
894.37	894.37

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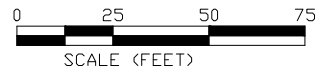
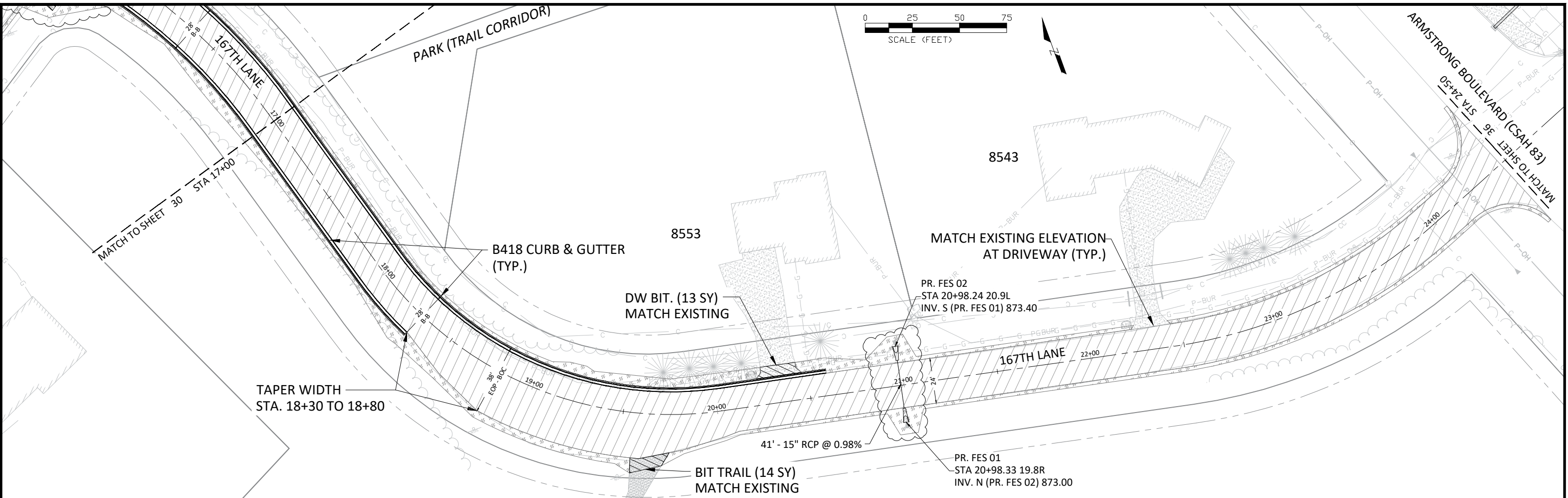
DESIGNED BY:	JJF
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CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
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STREET & STORM SEWER
 167TH LN STA. 10+50 TO 17+00

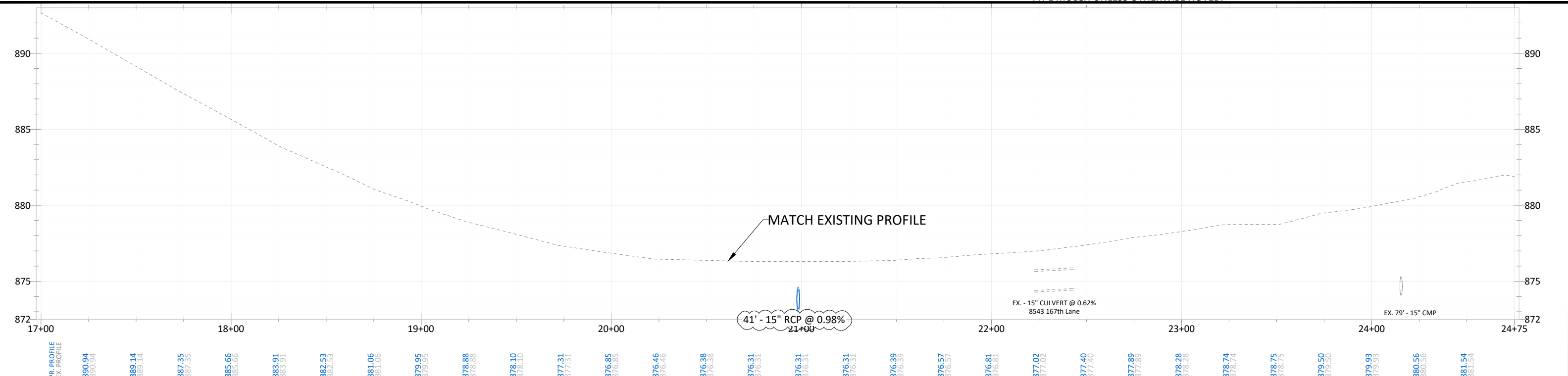
AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

- | | | | |
|-----------------------------|---------------------------|------------------------|--------------------|
| BIT PAVEMENT - FULL SECTION | NEW DRIVEWAY - CONCRETE | PR. DRAIN TILE | B418 CURB & GUTTER |
| BIT PAVEMENT - 2" WEAR | NEW DRIVEWAY - GRAVEL | PR. STORM SEWER | RIPRAP CLASS III |
| | NEW DRIVEWAY - BITUMINOUS | PR. FLARED END SECTION | SEEDING AREA |

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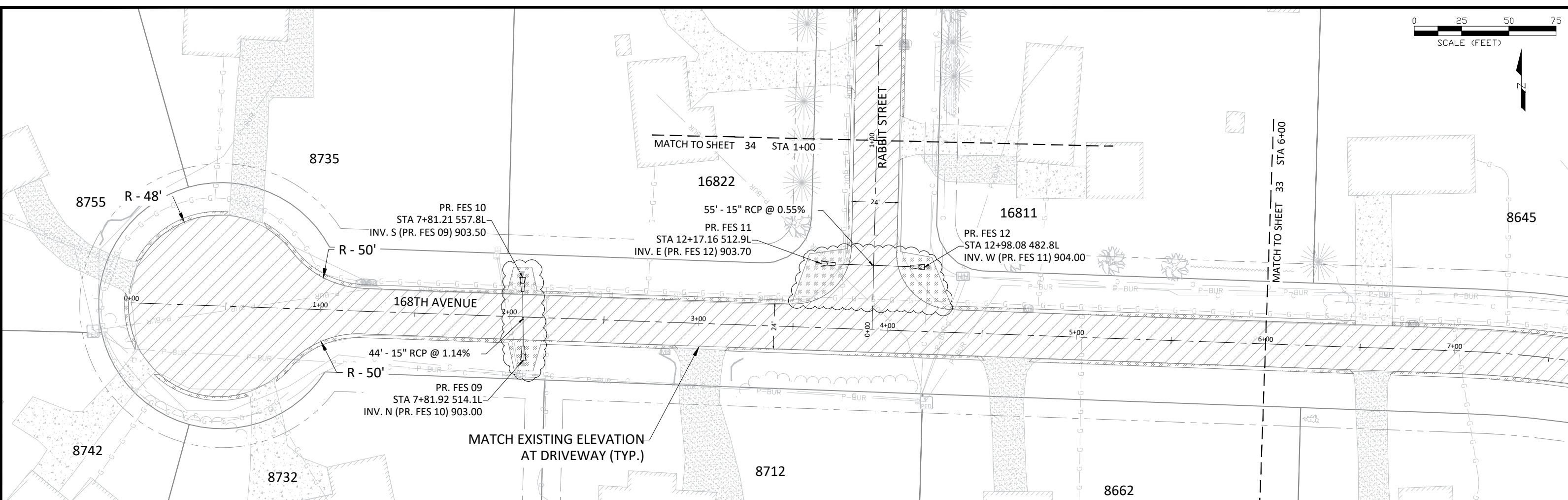
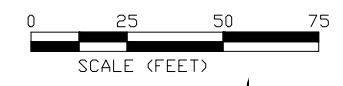
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CITY OF RAMSEY
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 RAMSEY, MN 55303
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STREET & STORM SEWER
 167TH LN STA. 17+00 TO 24+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

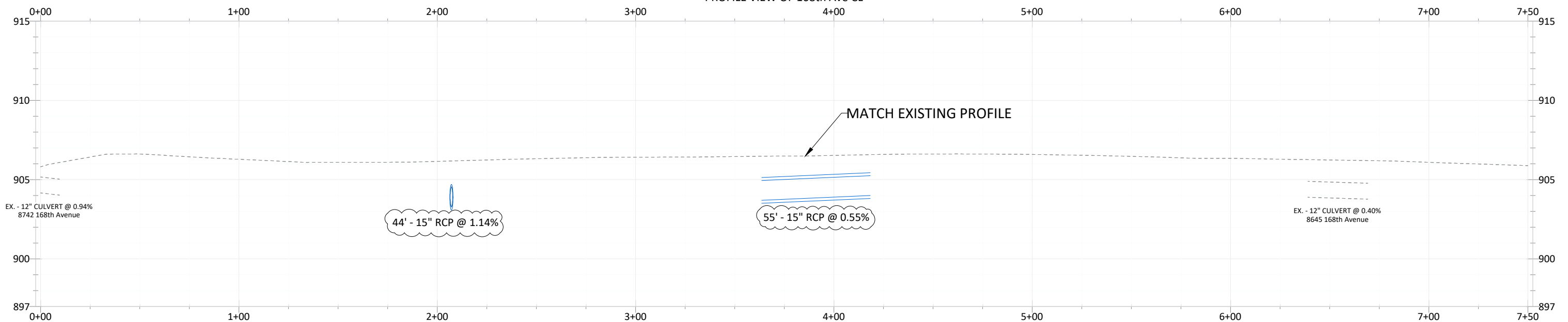


LEGEND

- | | | | |
|-----------------------------|---------------------------|------------------------|--------------------|
| BIT PAVEMENT - FULL SECTION | NEW DRIVEWAY - CONCRETE | PR. DRAIN TILE | B418 CURB & GUTTER |
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PROFILE VIEW OF 168th Ave CL



PR. PROFILE	906.43	906.62	906.44	906.28	906.14	906.10	906.10	906.15	906.24	906.32	906.38	906.41	906.43	906.46	906.49	906.53	906.59	906.61	906.61	906.59	906.54	906.47	906.37	906.34	906.29	906.24	906.19	906.09	905.99
EX. PROFILE	906.43	906.62	906.44	906.28	906.14	906.10	906.10	906.15	906.24	906.32	906.38	906.41	906.43	906.46	906.49	906.53	906.59	906.61	906.61	906.59	906.54	906.47	906.37	906.34	906.29	906.24	906.19	906.09	905.99

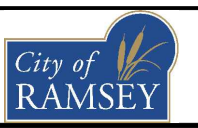
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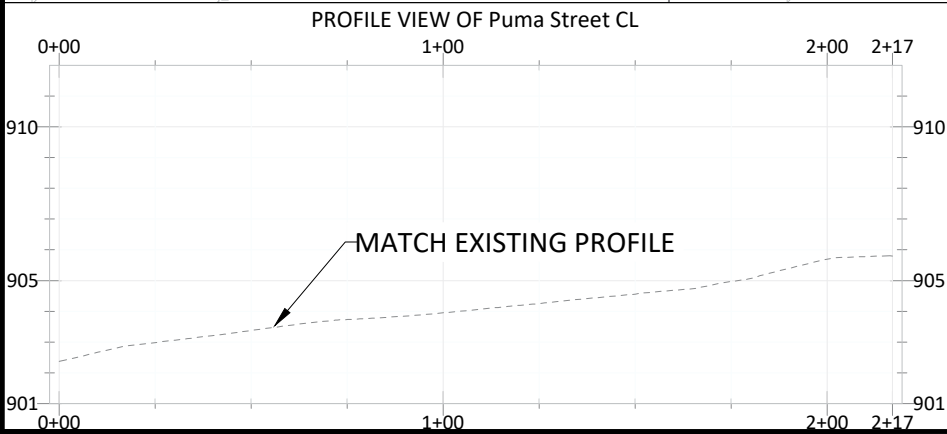
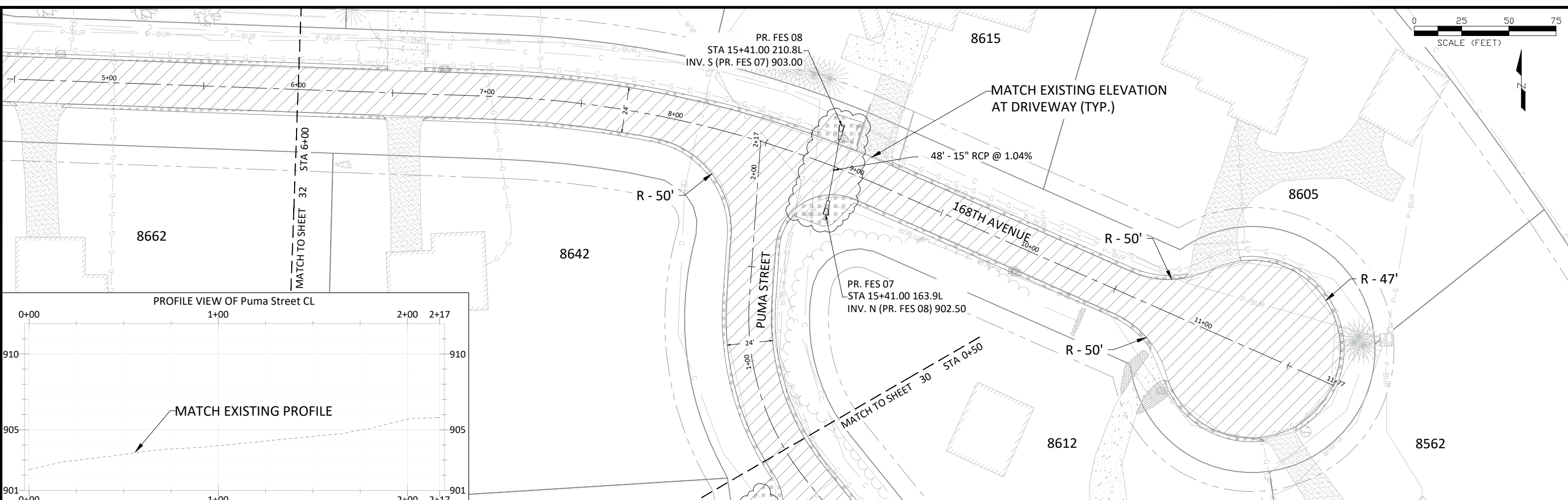
DATE: 6/28/22
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 (763) 427-1410 FAX (763) 433-9898

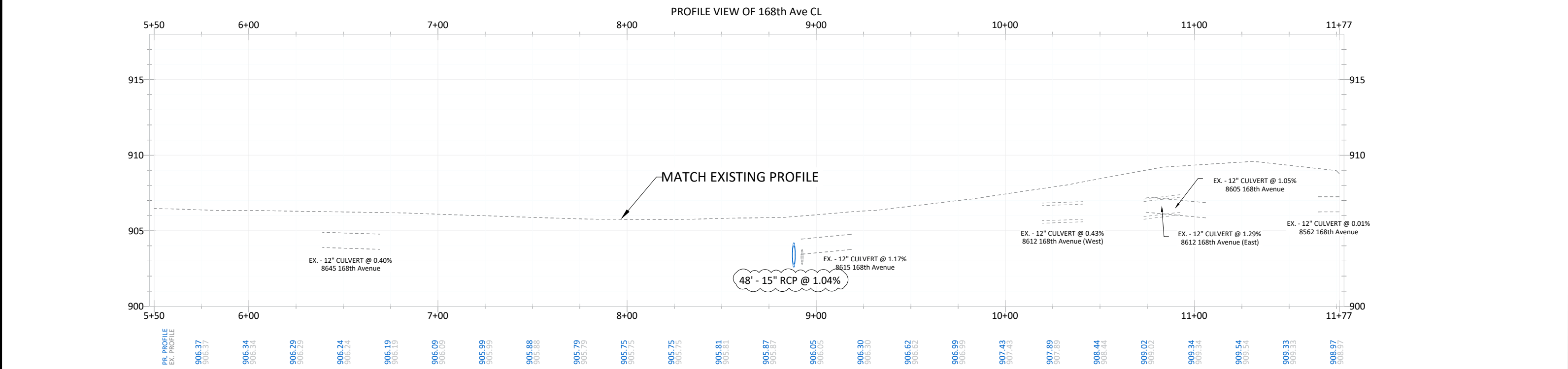
STREET & STORM SEWER
 168TH AVE STA. 0+00 TO 6+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND			
	NEW DRIVEWAY - CONCRETE		PR. DRAIN TILE
	NEW DRIVEWAY - GRAVEL		PR. STORM SEWER
	NEW DRIVEWAY - BITUMINOUS		PR. FLARED END SECTION
	BIT PAVEMENT - FULL SECTION		B418 CURB & GUTTER
	BIT PAVEMENT - 2\"/>		

NOTE:
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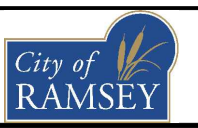


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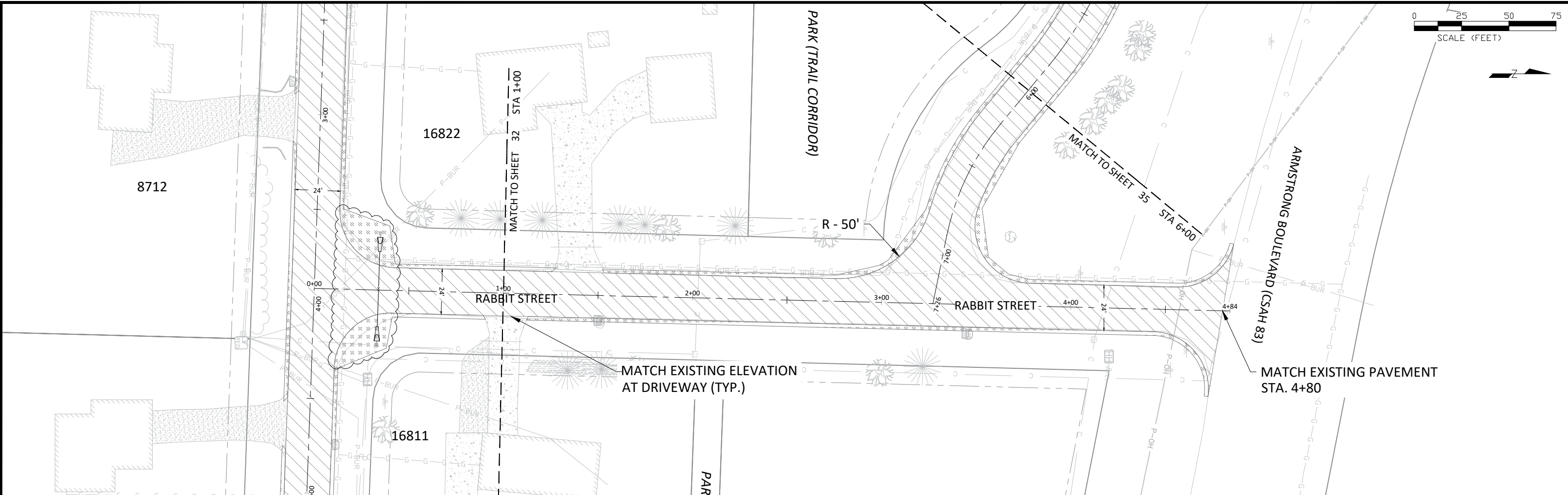
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 RAMSEY, MN 55303
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STREET & STORM SEWER
 168TH AVE STA. 6+00 TO 11+77

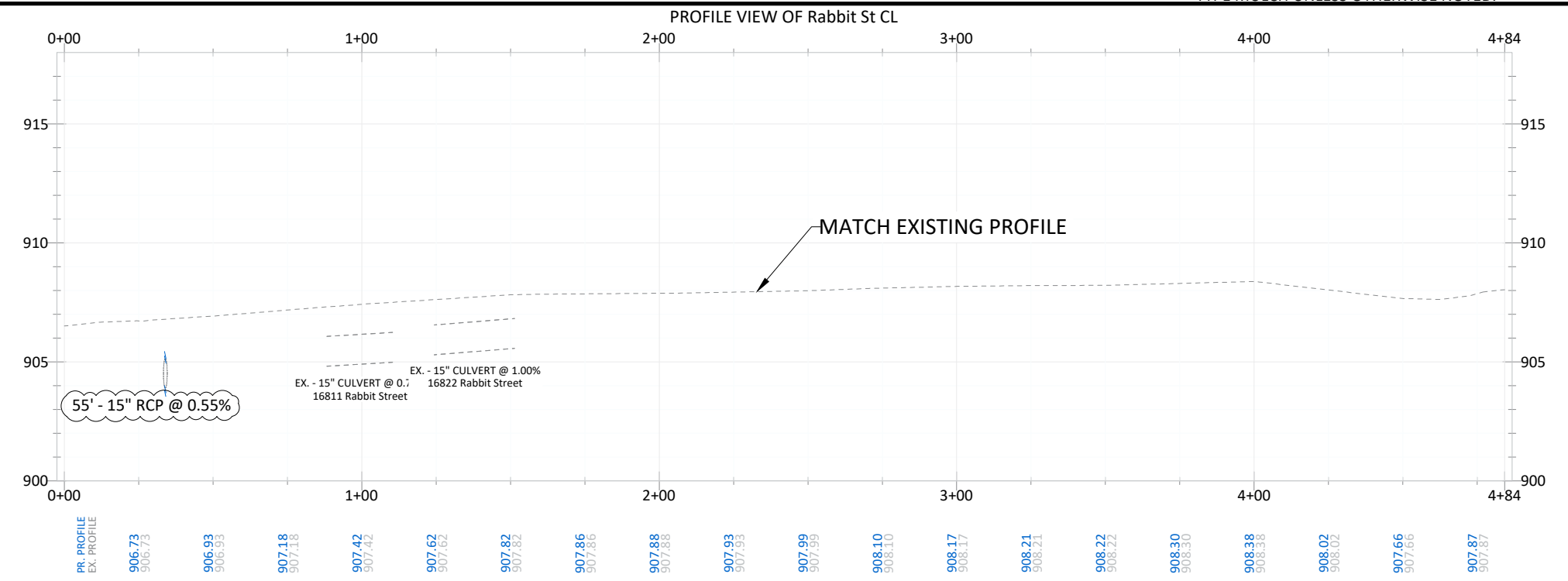
AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

- | | | | | | | | |
|--|-----------------------------|--|---------------------------|--|------------------------|--|--------------------|
| | BIT PAVEMENT - FULL SECTION | | NEW DRIVEWAY - CONCRETE | | PR. DRAIN TILE | | B418 CURB & GUTTER |
| | BIT PAVEMENT - 2" WEAR | | NEW DRIVEWAY - GRAVEL | | PR. STORM SEWER | | RIPRAP CLASS III |
| | | | NEW DRIVEWAY - BITUMINOUS | | PR. FLARED END SECTION | | SEEDING AREA |

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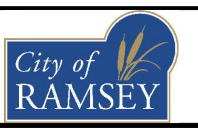
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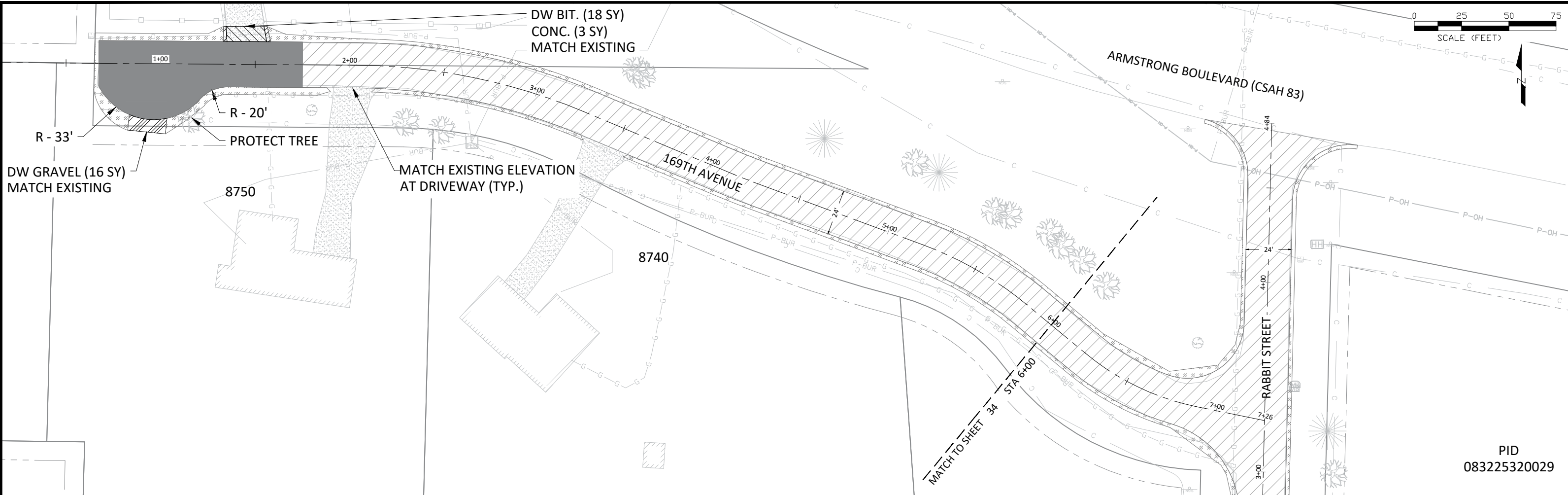
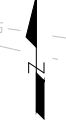
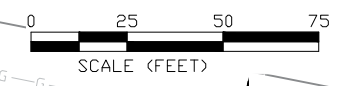
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

**STREET & STORM SEWER
RABBIT STREET**

**AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA**

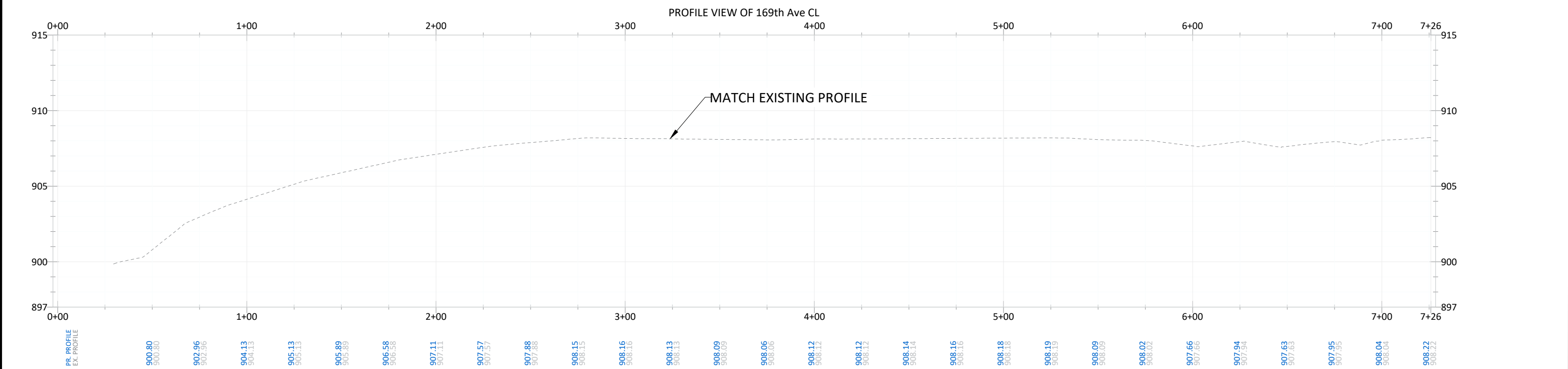


PID
083225320029

LEGEND

- BIT PAVEMENT - FULL SECTION
- BIT PAVEMENT - 2" WEAR
- NEW DRIVEWAY - CONCRETE
- NEW DRIVEWAY - GRAVEL
- NEW DRIVEWAY - BITUMINOUS
- PR. DRAIN TILE
- PR. STORM SEWER
- PR. FLARED END SECTION
- B418 CURB & GUTTER
- RIPRAP CLASS III
- SEEDING AREA

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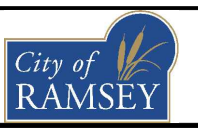
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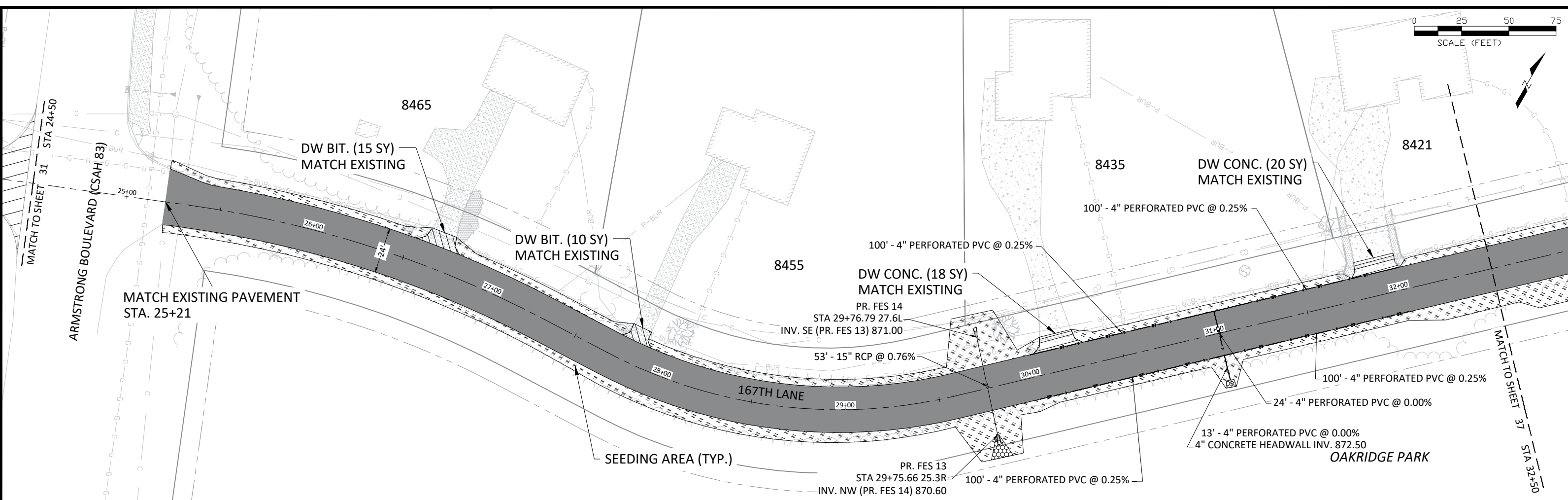
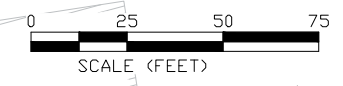
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CITY OF RAMSEY
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STREET & STORM SEWER
 169TH AVENUE

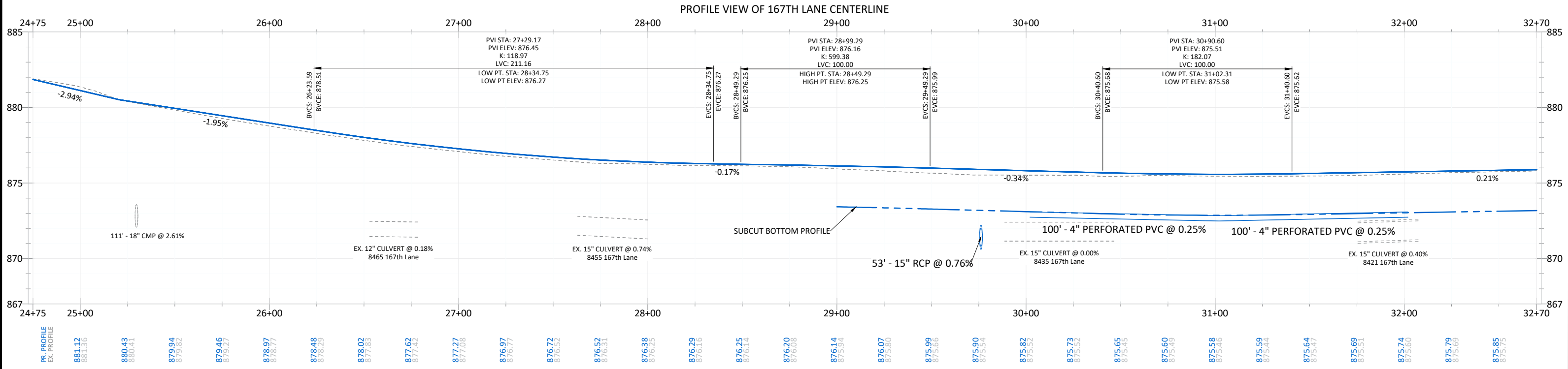
AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



LEGEND		PR. DRAIN TILE		B418 CURB & GUTTER	
	BIT PAVEMENT - FULL SECTION		PR. DRAIN TILE		B418 CURB & GUTTER
	BIT PAVEMENT - 2" WEAR		PR. STORM SEWER		RIPRAP CLASS III
	NEW DRIVEWAY - CONCRETE		PR. FLARED END SECTION		SEEDING AREA
	NEW DRIVEWAY - GRAVEL		PR. CS FLARED END		
	NEW DRIVEWAY - BITUMINOUS				

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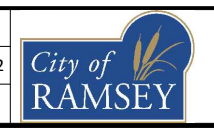
UNLESS OTHERWISE NOTED.
 5. 4" PERFORATED DRAIN TILE W/4" CONCRETE HEADWALL, DAYLIGHT MIN. 1' ABOVE DITCH BOTTOM.
 6. SEE STANDARD PLATE 3131C.



DATE	REVISION

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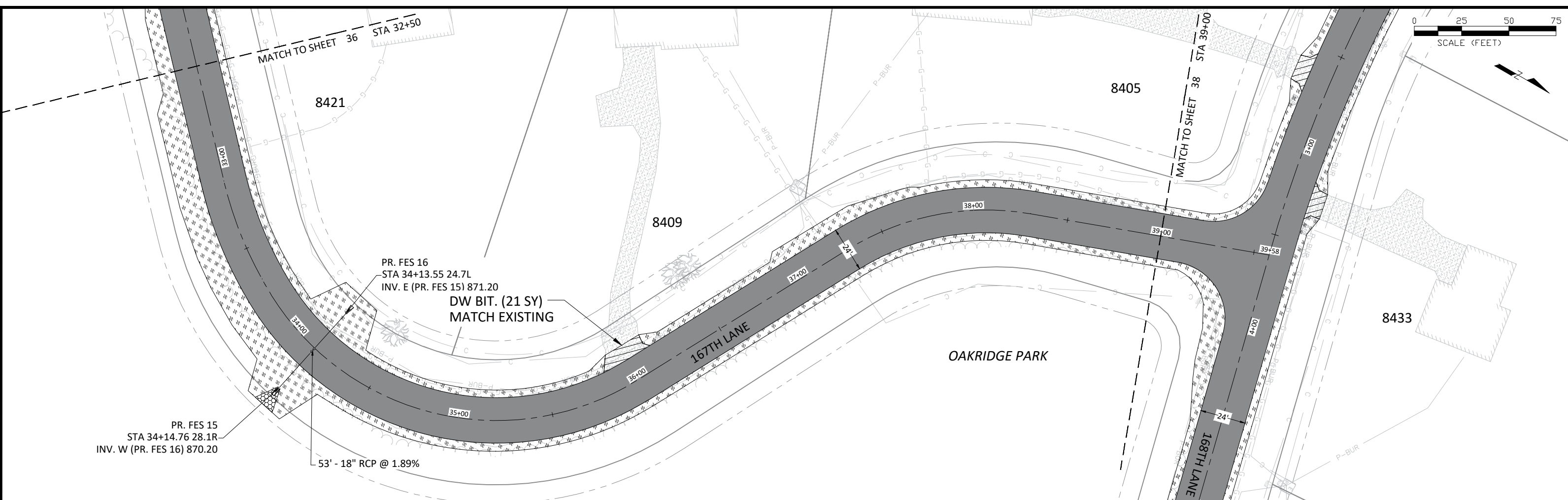
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CITY OF RAMSEY
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 RAMSEY, MN 55303
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STREET & STORM SEWER
 167TH LN STA. 25+00 TO 32+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

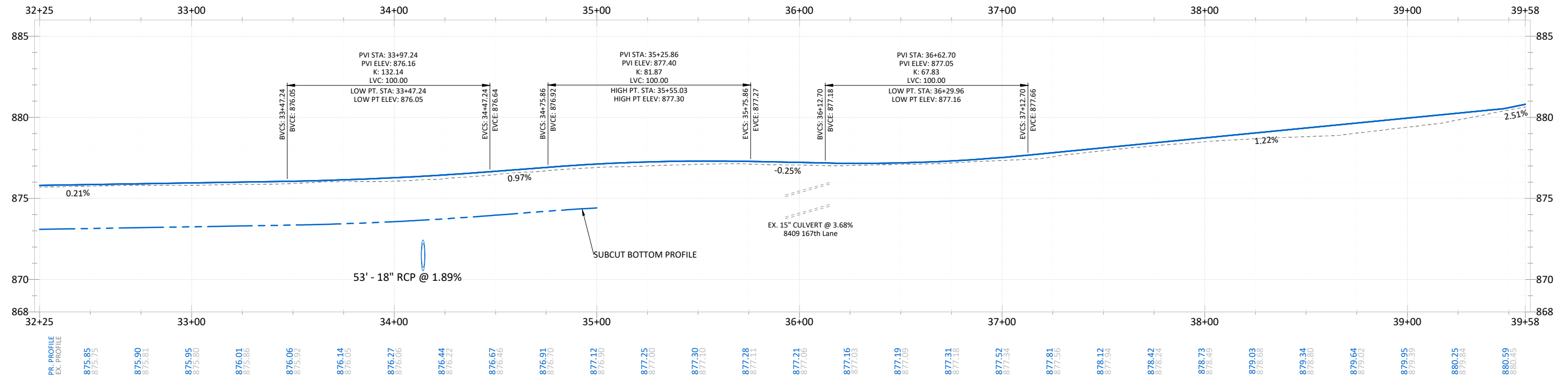


LEGEND

- BIT PAVEMENT - FULL SECTION
- BIT PAVEMENT - 2" WEAR
- NEW DRIVEWAY - CONCRETE
- NEW DRIVEWAY - GRAVEL
- NEW DRIVEWAY - BITUMINOUS
- PR. DRAIN TILE
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PROFILE VIEW OF 167TH LANE CENTERLINE



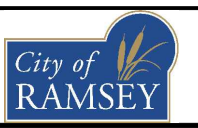
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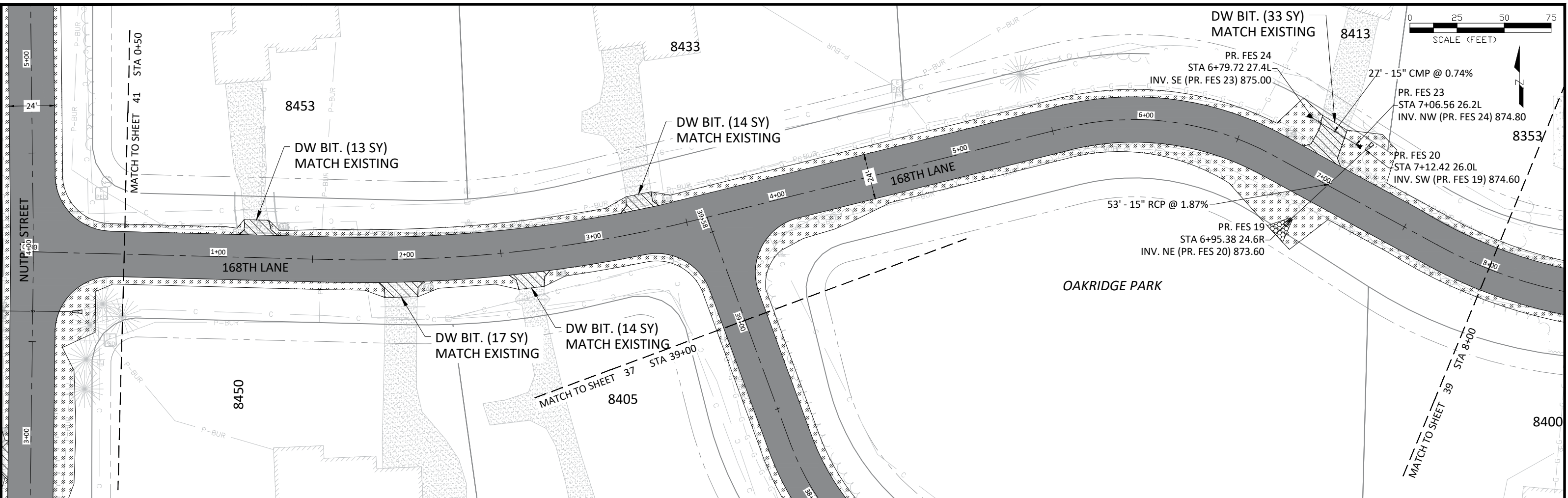
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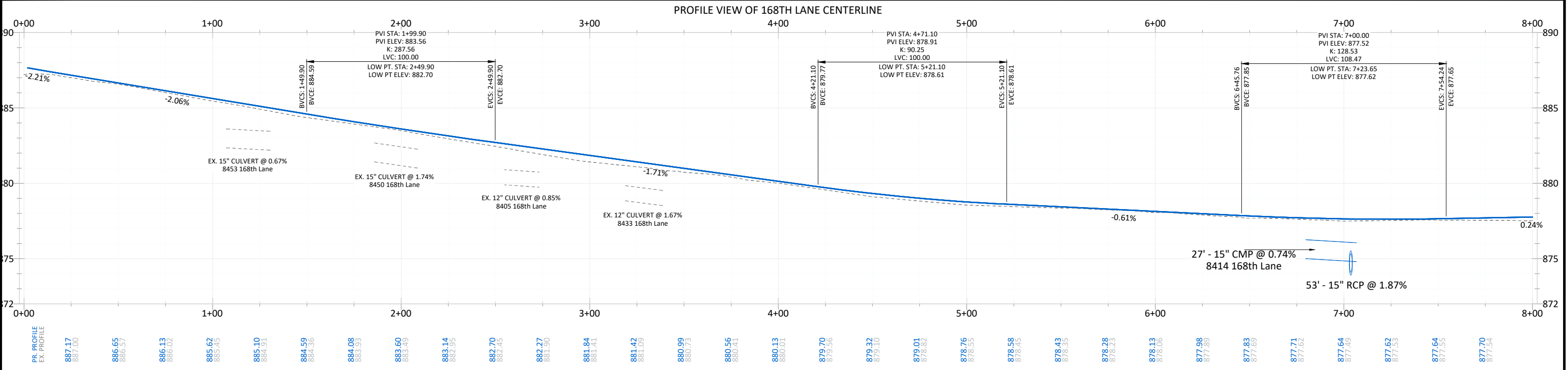
STREET & STORM SEWER
167TH LN STA. 32+50 TO 39+58

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND			
	BIT PAVEMENT - FULL SECTION		PR. DRAIN TILE
	BIT PAVEMENT - 2" WEAR		PR. STORM SEWER
	NEW DRIVEWAY - CONCRETE		PR. FLARED END SECTION
	NEW DRIVEWAY - GRAVEL		PR. CS FLARED END
	NEW DRIVEWAY - BITUMINOUS		B418 CURB & GUTTER
			RIPRAP CLASS III
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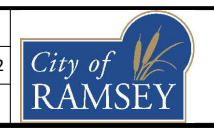
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 CHECKED BY: JJF

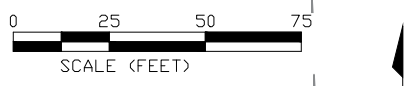
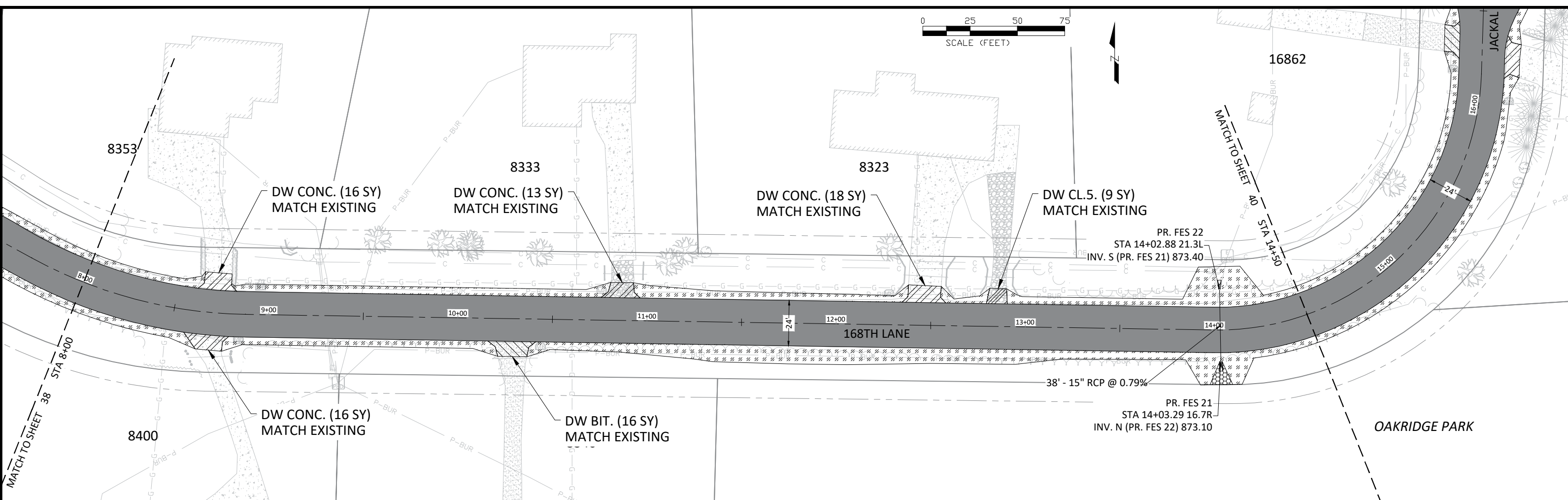
DATE: 6/28/22
 FILE: 22-02



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

STREET & STORM SEWER
 168TH LN STA. 0+00 TO 8+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

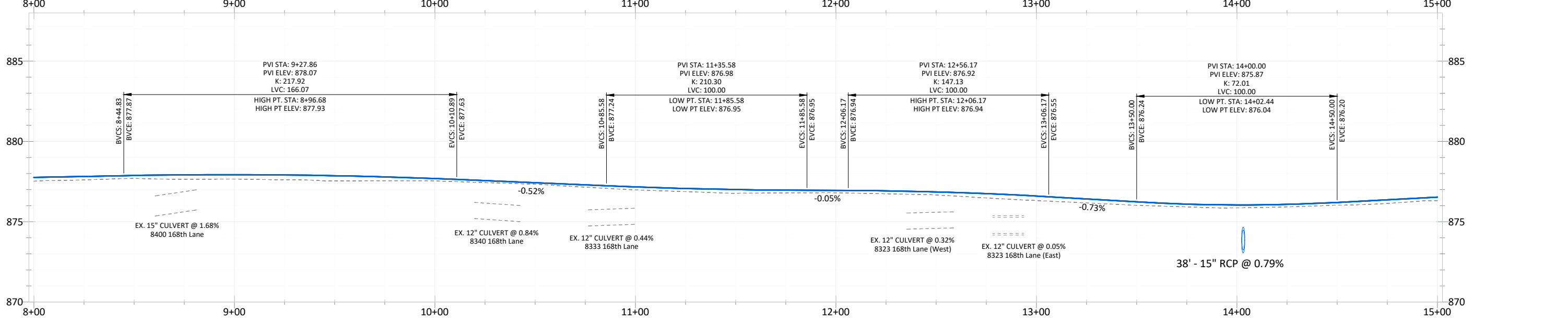


LEGEND

- BIT PAVEMENT - FULL SECTION
- BIT PAVEMENT - 2" WEAR
- NEW DRIVEWAY - CONCRETE
- NEW DRIVEWAY - GRAVEL
- NEW DRIVEWAY - BITUMINOUS
- PR. DRAIN TILE
- PR. STORM SEWER
- PR. FLARED END SECTION
- PR. CS FLARED END
- B418 CURB & GUTTER
- RIPRAP CLASS III
- SEEDING AREA

- NOTE:**
- ALL RADII TO BE CONSTRUCTED AT 30' UNLESS OTHERWISE NOTED.
 - TYPICAL SECTION SEE SHEET 04.
 - RESTORATION AREAS ARE SHOWN IN A GENERAL MANNER ONLY.
 - RESTORE ALL DISTURBED AREAS WITH 2" TOPSOIL, HYDROSEED, MNDOT SEED MIX 25-151, AND HYDRAULIC MATRIX TYPE MULCH UNLESS OTHERWISE NOTED.

PROFILE VIEW OF 168TH LANE CENTERLINE



PR. PROFILE	877.82	877.88	877.92	877.93	877.91	877.87	877.79	877.69	877.56	877.43	877.30	877.17	877.07	877.00	876.96	876.95	876.92	876.86	876.75	876.60	876.47	876.24	876.10	876.05	876.08	876.20	876.37
EX. PROFILE	877.61	877.70	877.64	877.66	877.61	877.54	877.55	877.54	877.44	877.33	877.15	877.08	876.87	876.77	876.80	876.80	876.74	876.66	876.48	876.32	876.17	876.02	875.92	875.86	875.92	876.03	876.14

DATE: _____ REVISION: _____

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Joe Feriancek
 JOE FERIANCEK
 Date: 7/7/22 Lic. No. 57095

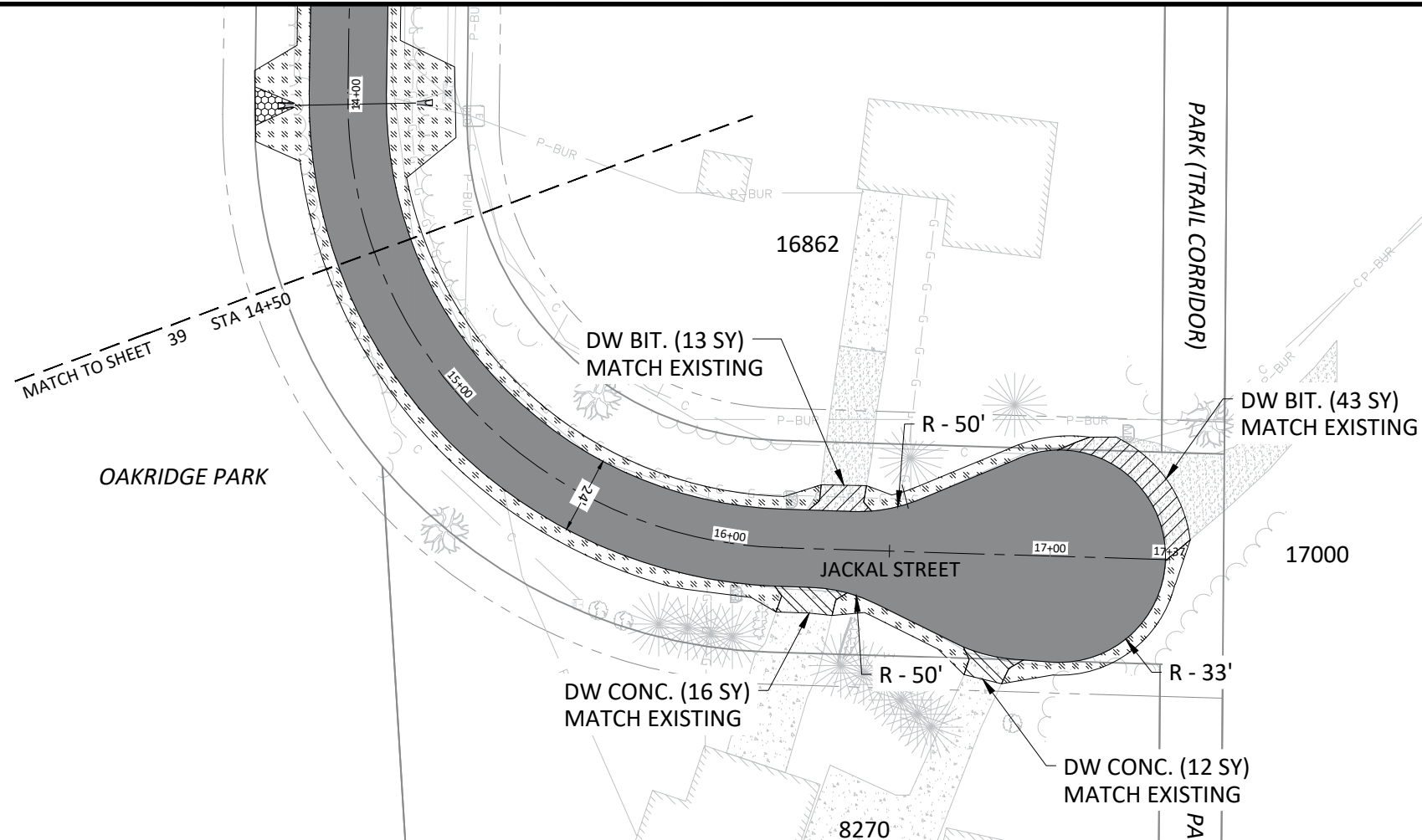
DESIGNED BY: J J F
 DRAWN BY: J J F
 CHECKED BY: J J F

DATE: 6/28/22
 FILE: 22-02

CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
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STREET & STORM SEWER
168TH LN STA. 8+00 TO 14+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA

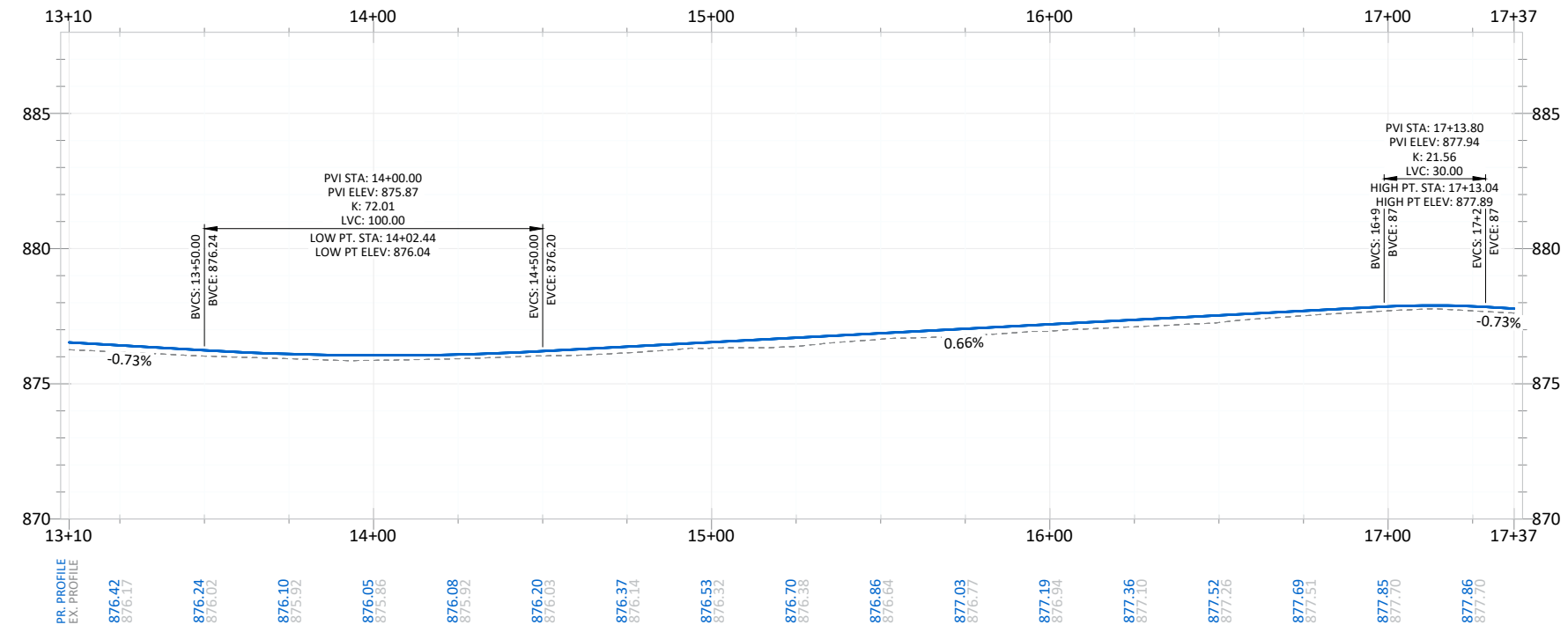


LEGEND

- | | | | | | | | |
|--|-----------------------------|--|---------------------------|--|------------------------|--|--------------------|
| | BIT PAVEMENT - FULL SECTION | | NEW DRIVEWAY - CONCRETE | | PR. DRAIN TILE | | B418 CURB & GUTTER |
| | BIT PAVEMENT - 2" WEAR | | NEW DRIVEWAY - GRAVEL | | PR. STORM SEWER | | RIPRAP CLASS III |
| | | | NEW DRIVEWAY - BITUMINOUS | | PR. FLARED END SECTION | | SEEDING AREA |
| | | | | | PR. CS FLARED END | | |

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PROFILE VIEW OF 168TH LANE CENTERLINE



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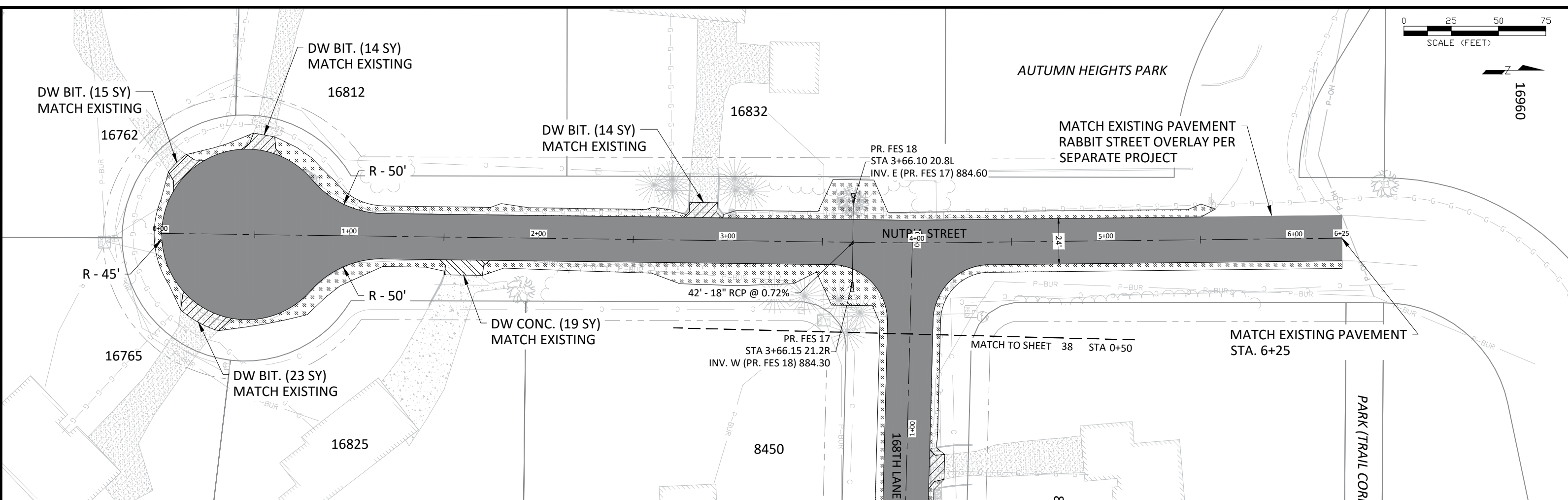
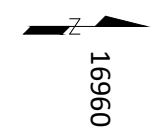
DESIGNED BY: JJF
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CHECKED BY: JJF

DATE: 6/28/22
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RAMSEY, MN 55303
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STREET & STORM SEWER
168TH LN STA. 14+50 TO 17+37

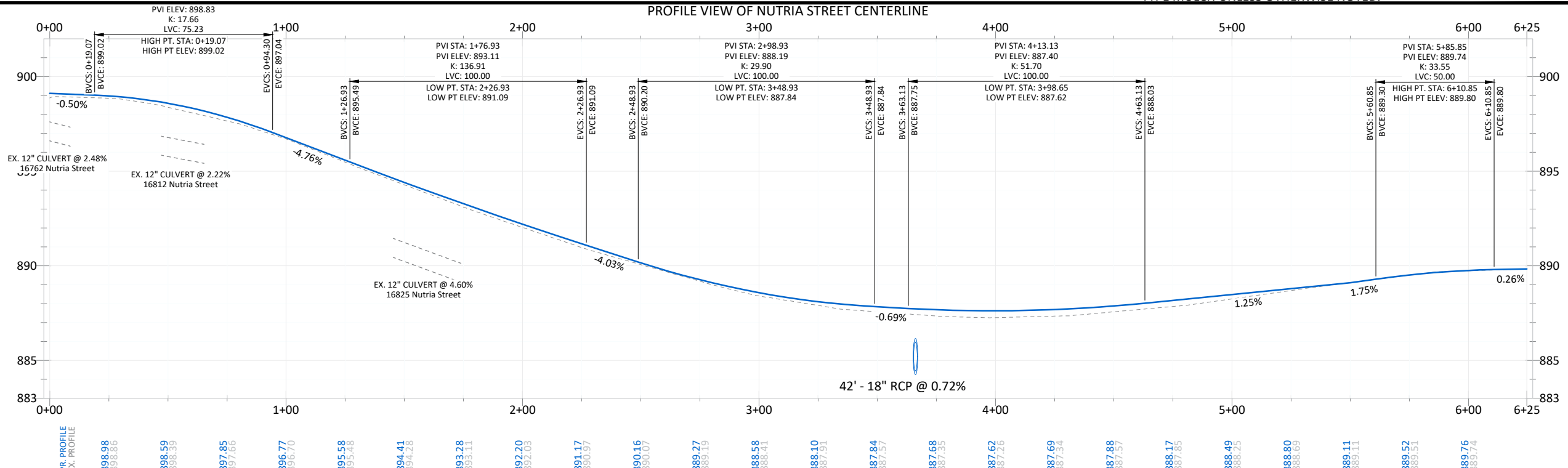
AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



LEGEND

- BIT PAVEMENT - FULL SECTION
- BIT PAVEMENT - 2" WEAR
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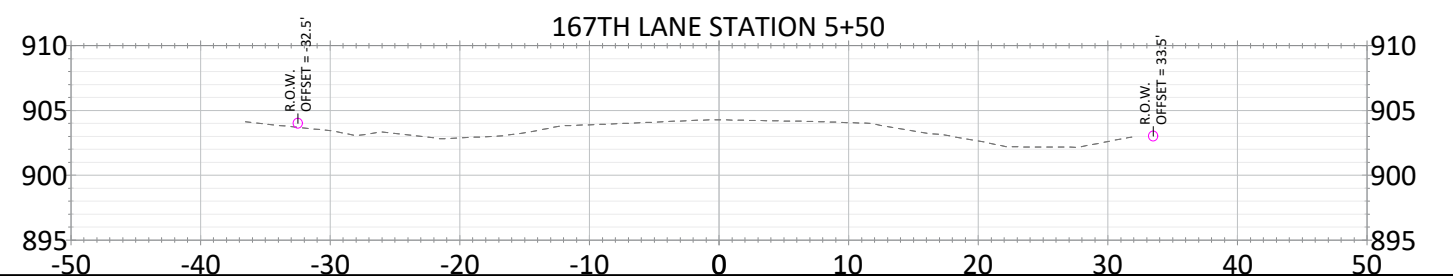
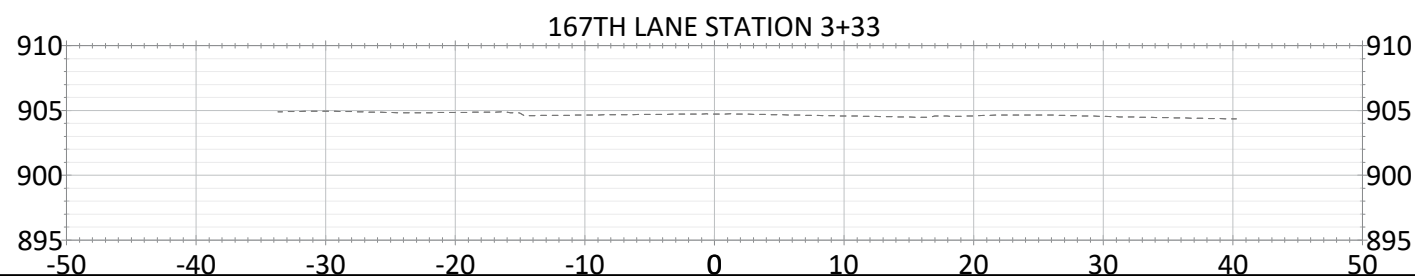
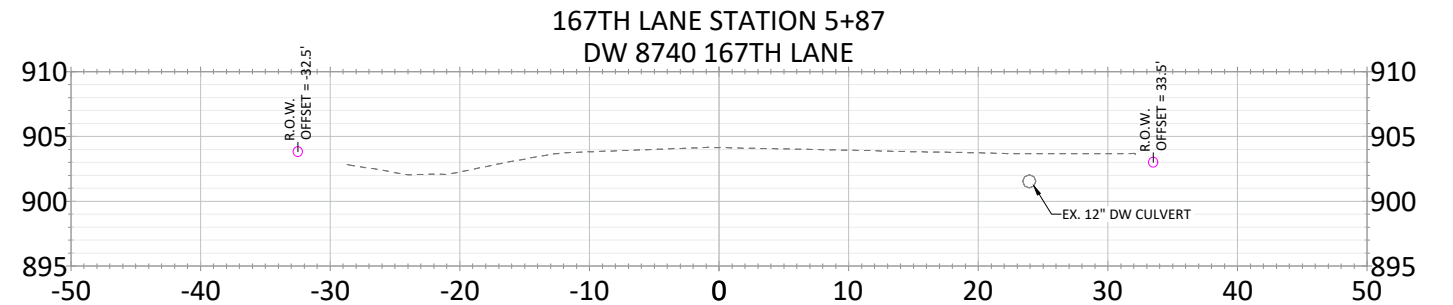
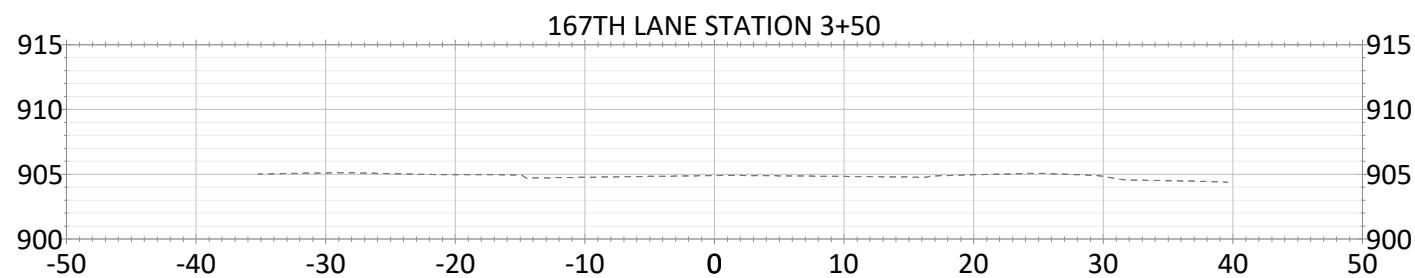
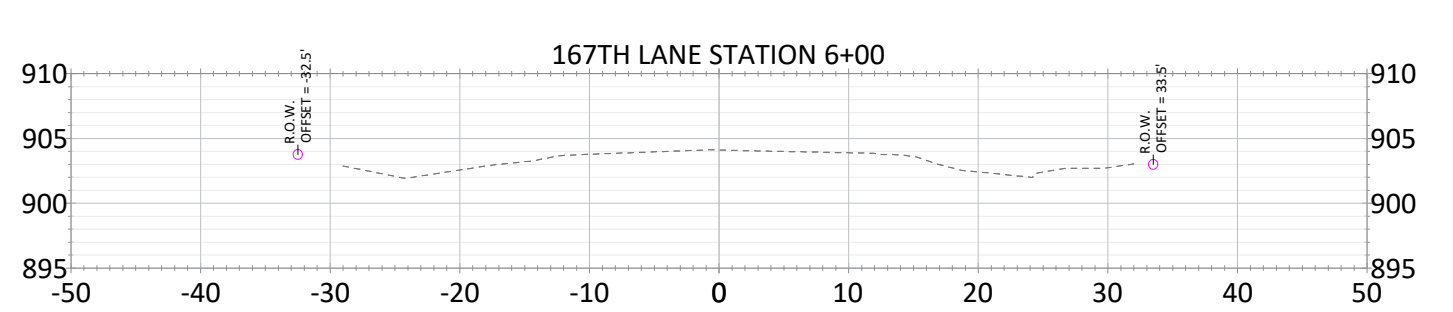
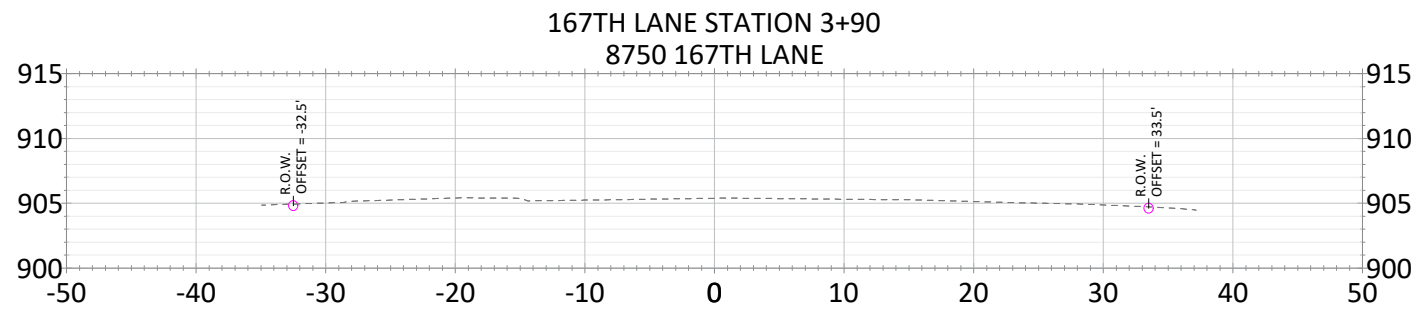
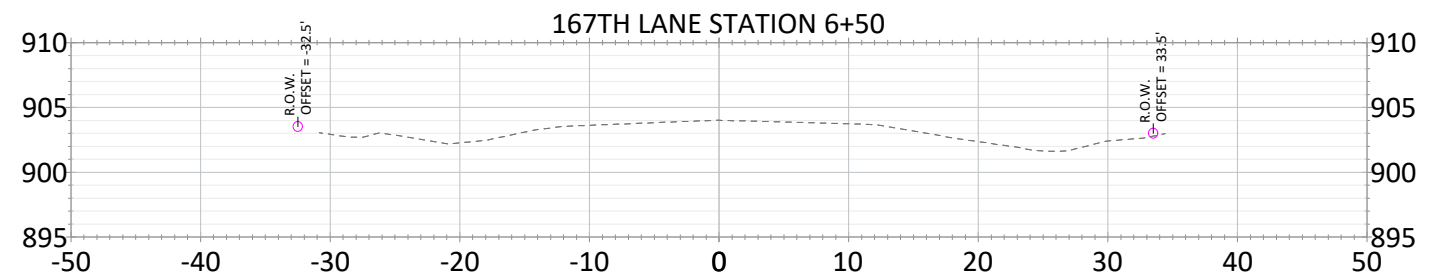
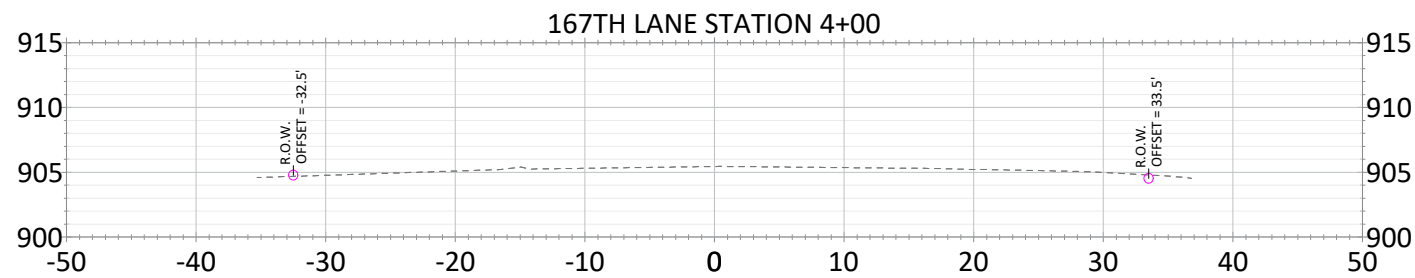
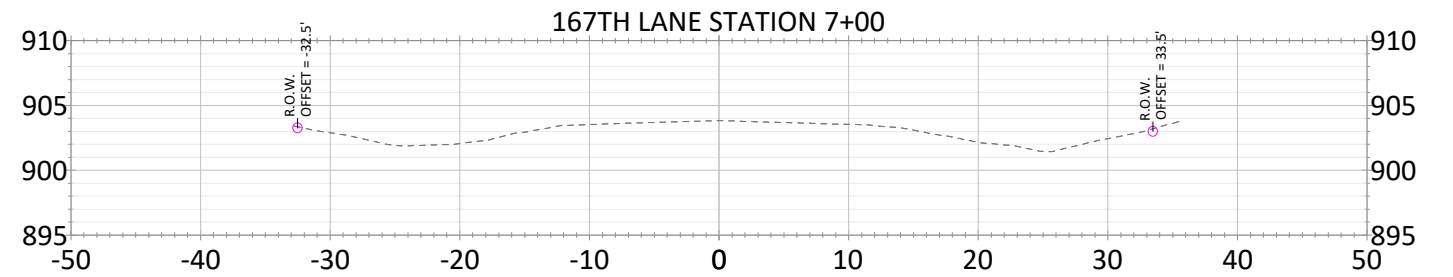
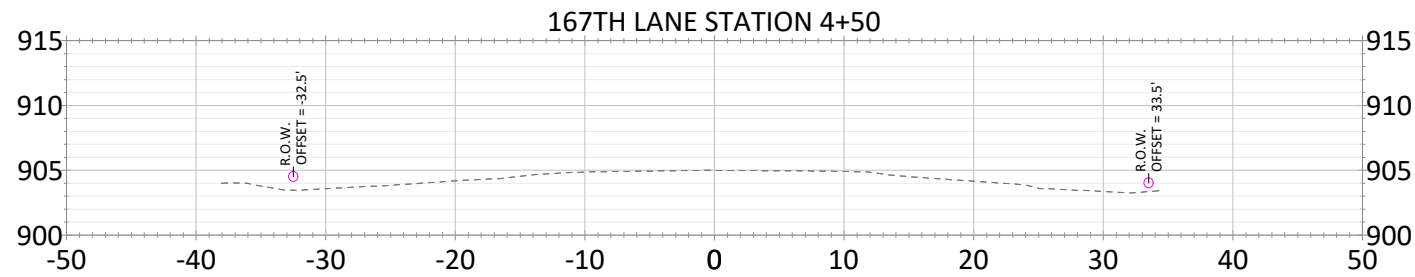
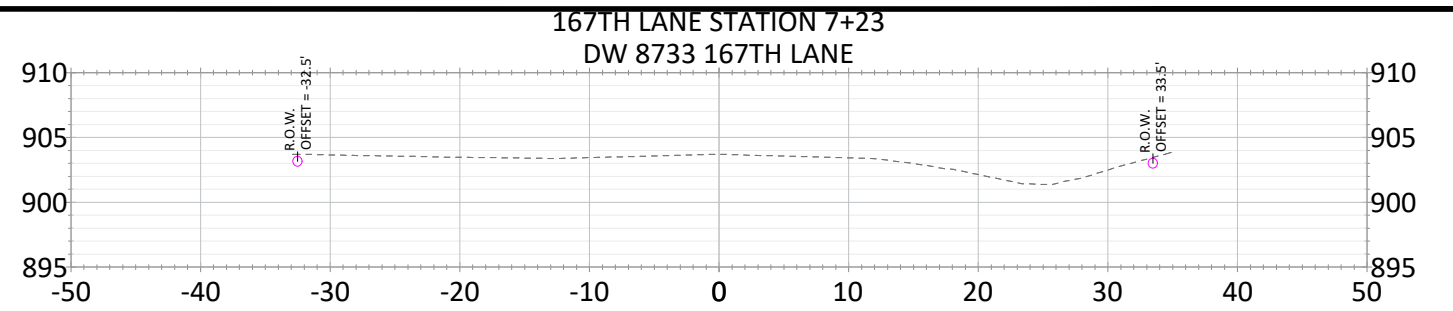
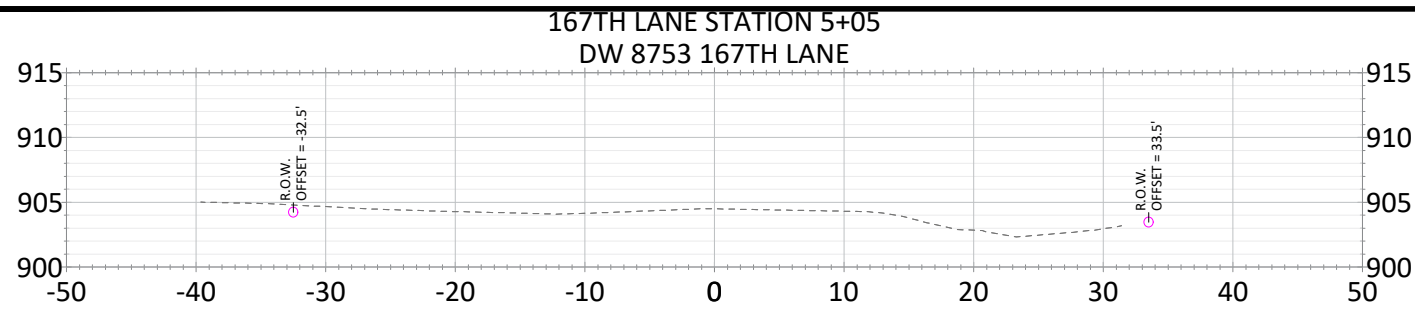
DESIGNED BY: JJJ
 DRAWN BY: JJJ
 CHECKED BY: JJJ

DATE: 6/28/22
 FILE: 22-02

CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

STREET & STORM SEWER
NUTRIA STREET

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



DATE	REVISION

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JOE FERIANCEK
Date: 6/28/22 Lic. No. 57095

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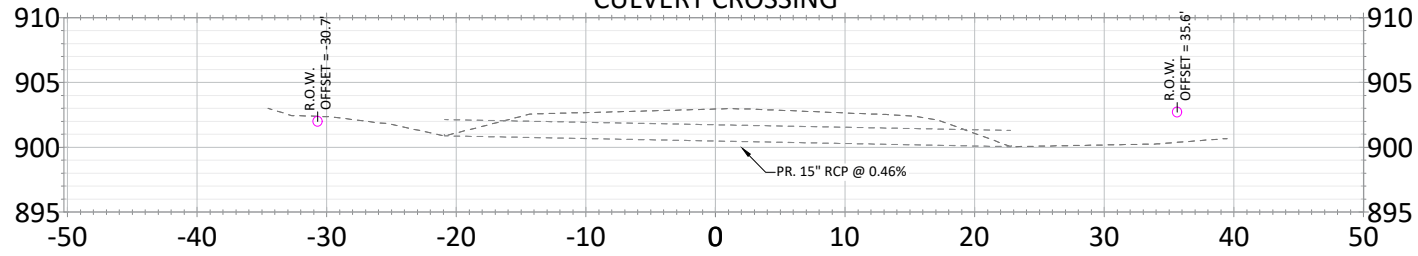
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RAMSEY, MN 55303
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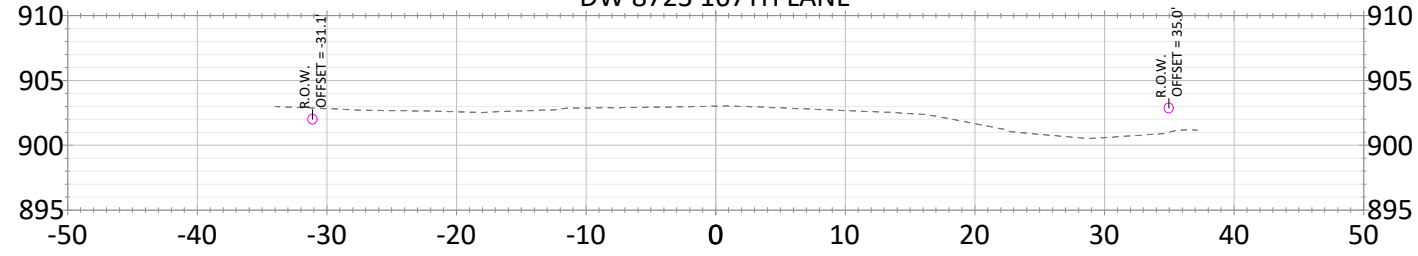
CROSS SECTIONS
167TH LN 3+33 TO 7+23

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA

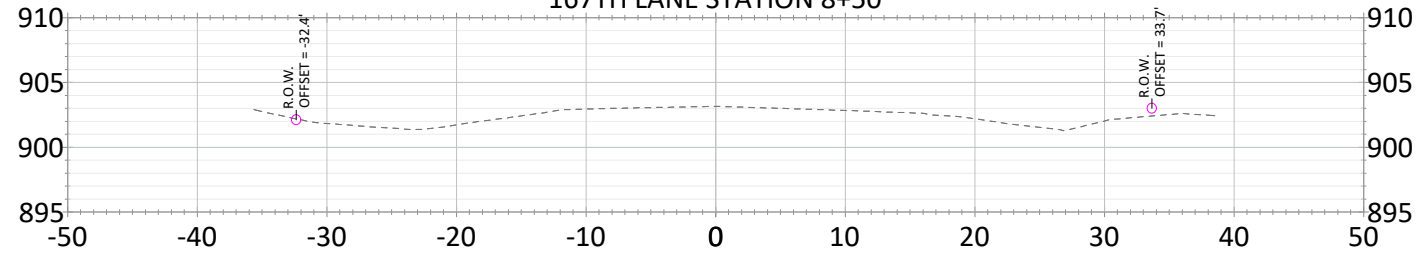
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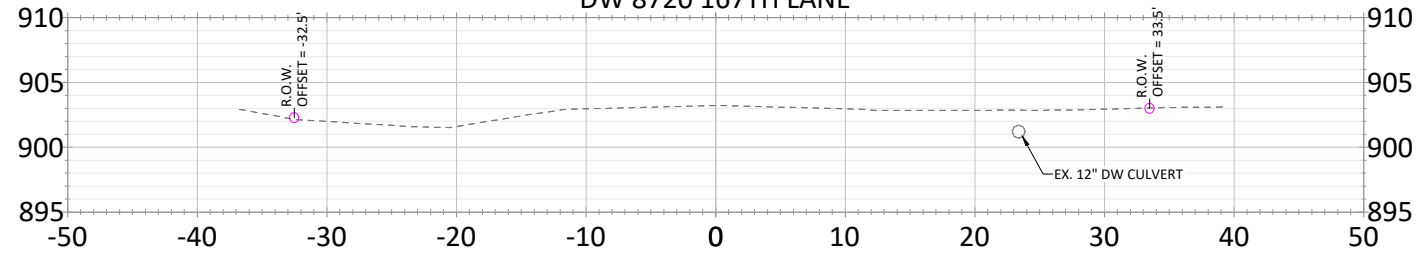
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DW 8723 167TH LANE



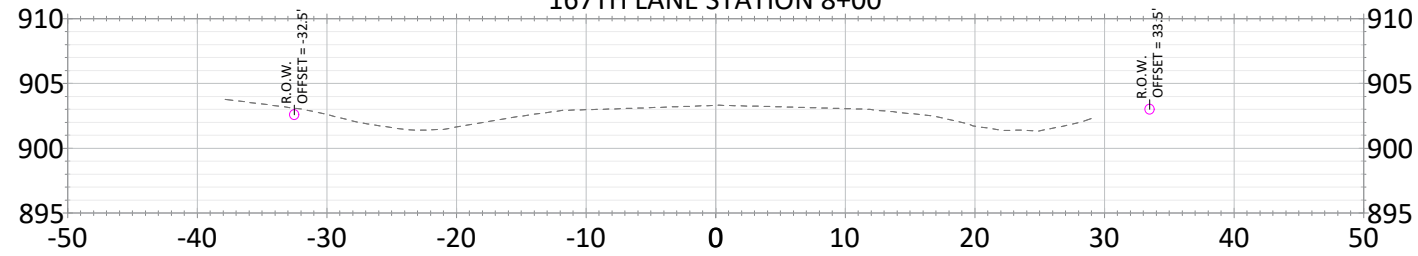
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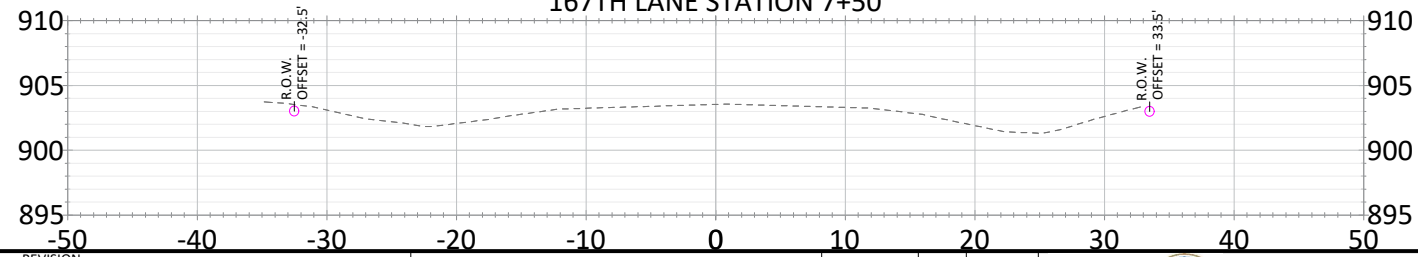
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DW 8720 167TH LANE



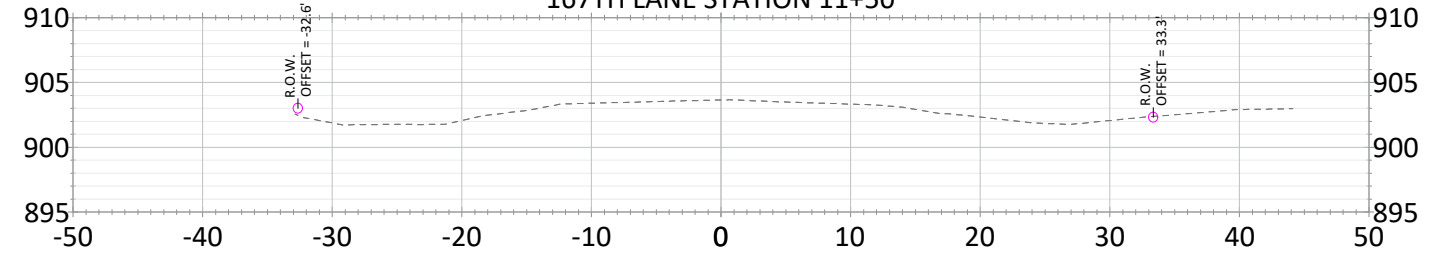
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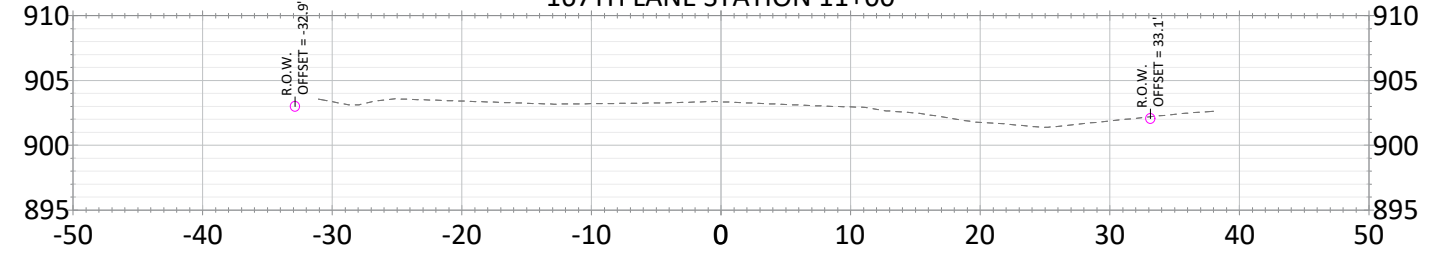
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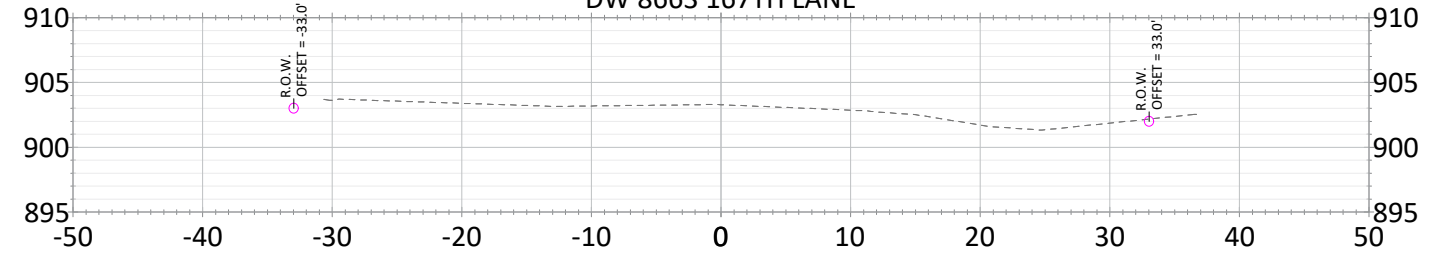
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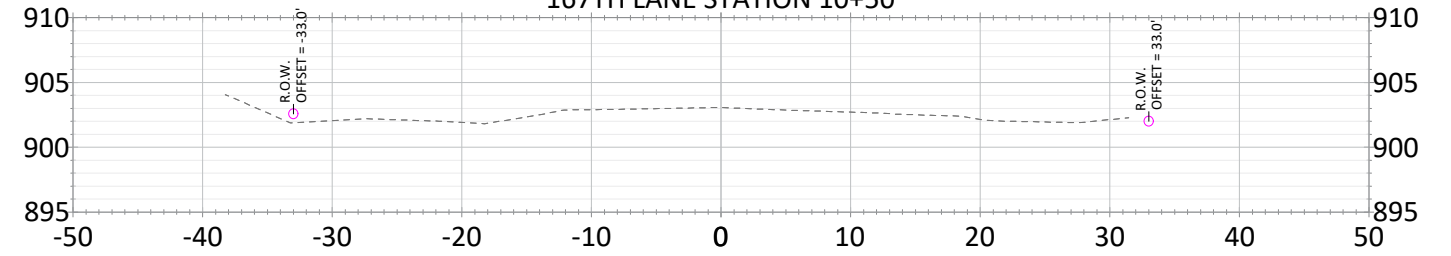
167TH LANE STATION 11+00



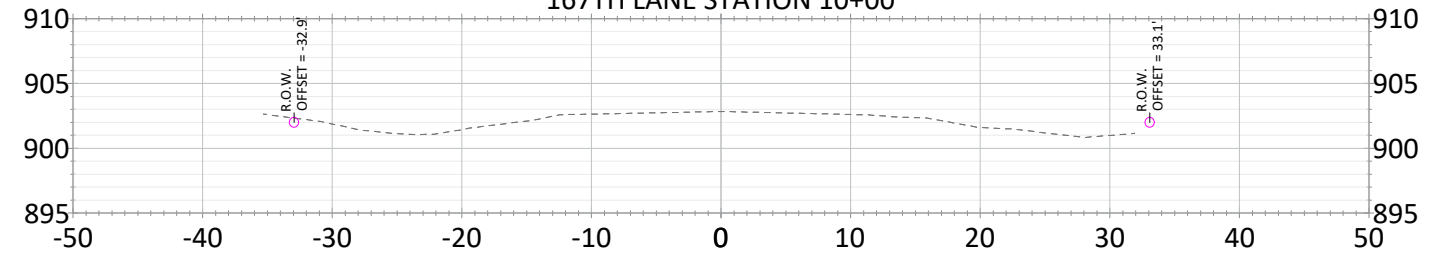
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DW 8663 167TH LANE



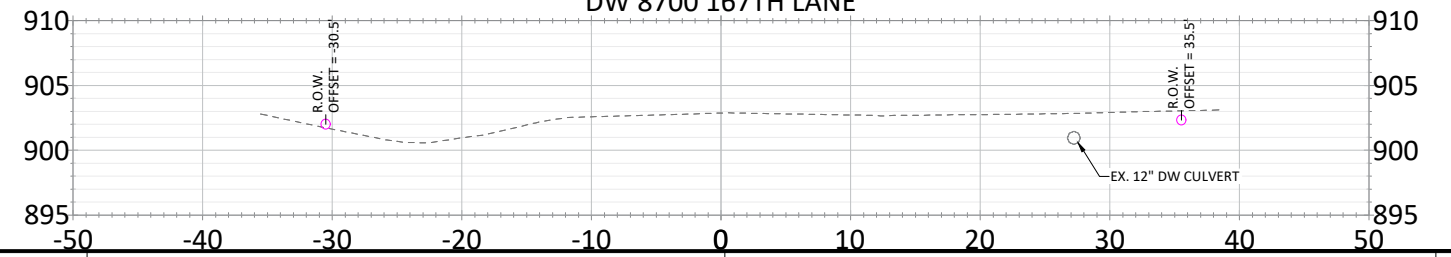
167TH LANE STATION 10+50



167TH LANE STATION 10+00



167TH LANE STATION 9+43
DW 8700 167TH LANE



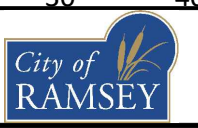
DATE	REVISION

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JOE FERIANCEK
Date: 6/28/22 Lic. No. 57095

DESIGNED BY: JJF
DRAWN BY: JJF
CHECKED BY: JJF

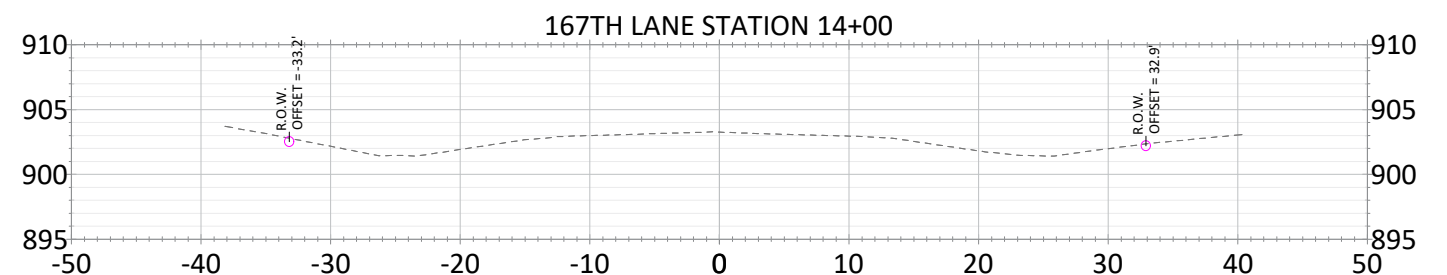
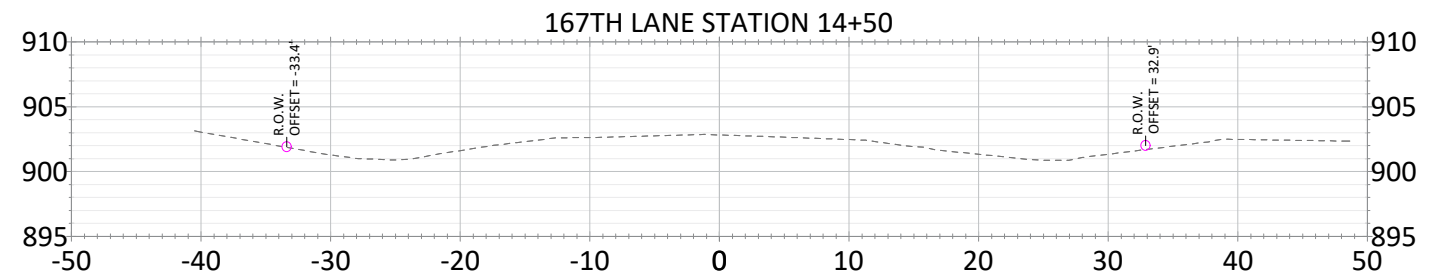
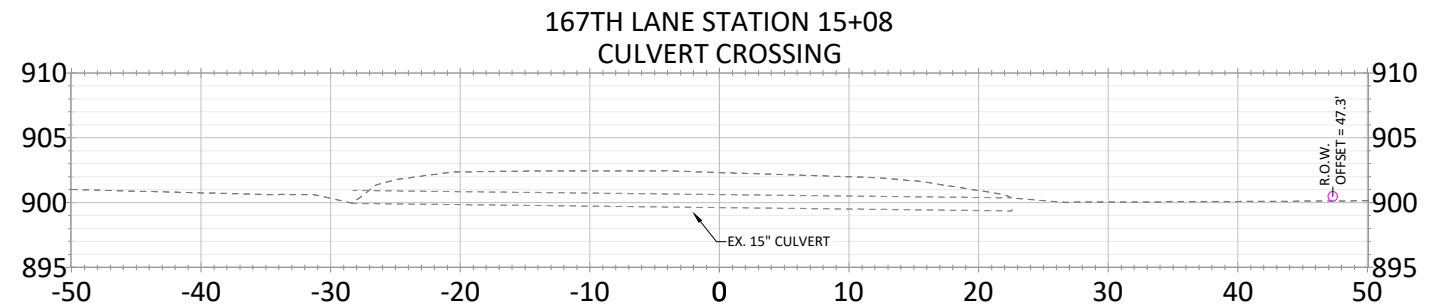
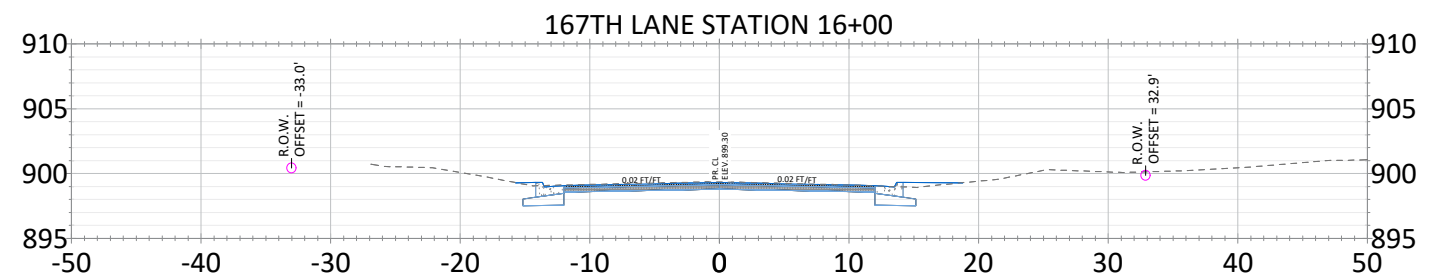
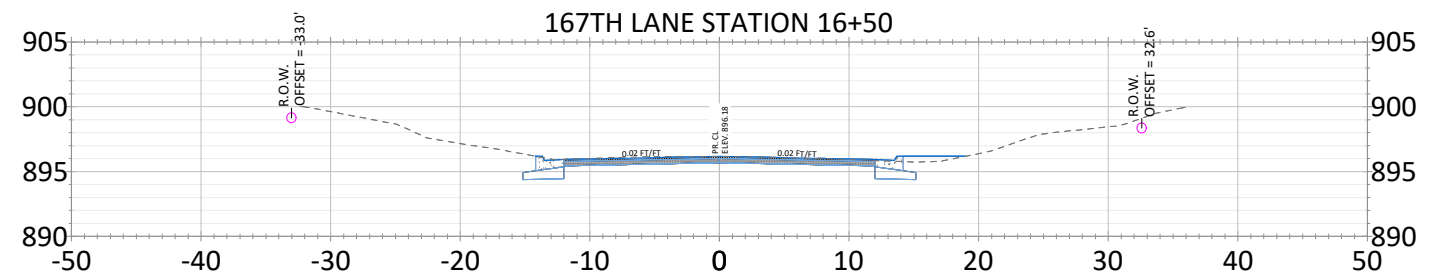
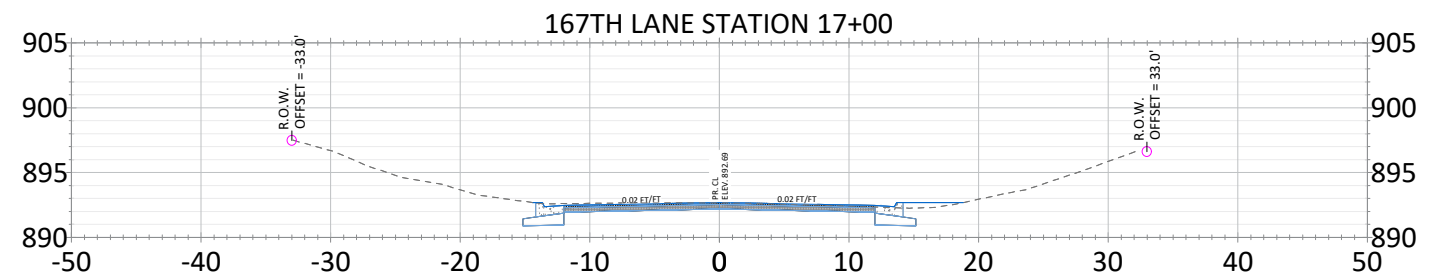
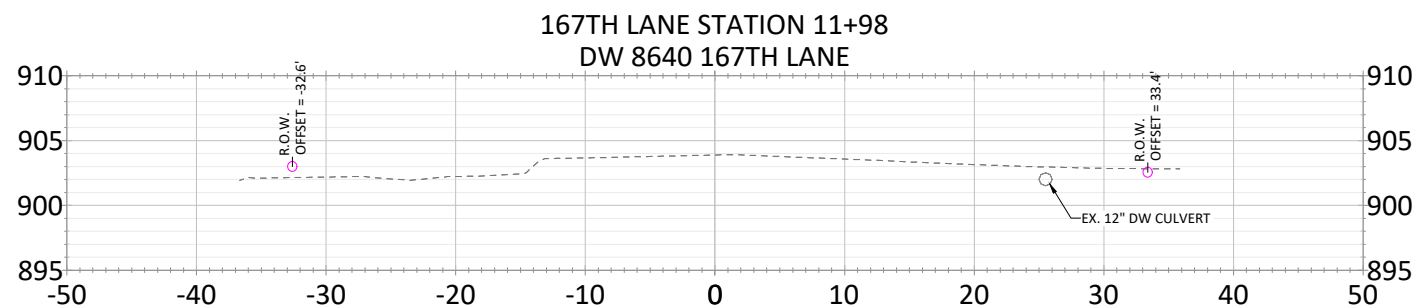
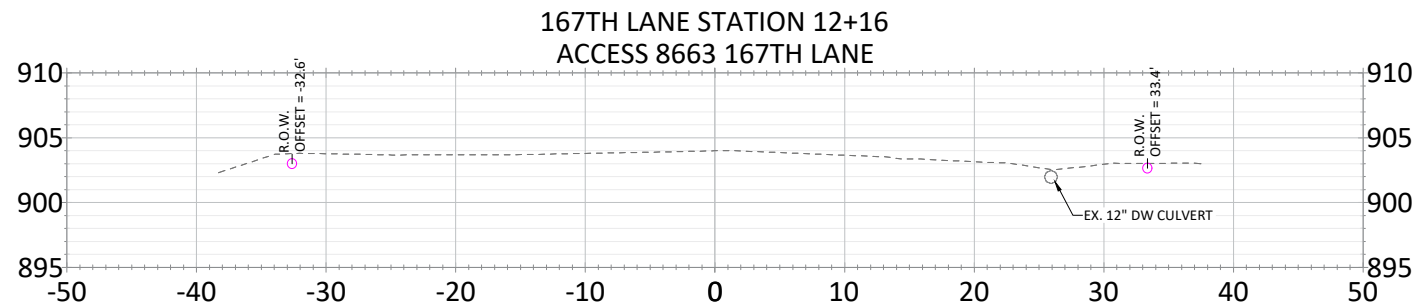
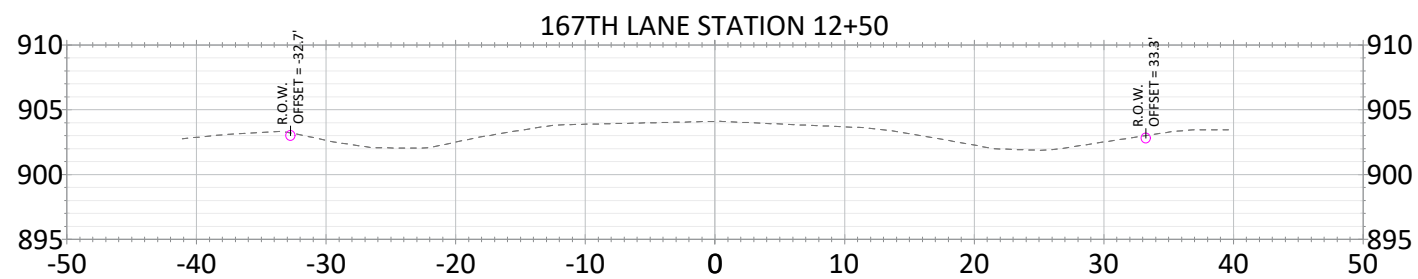
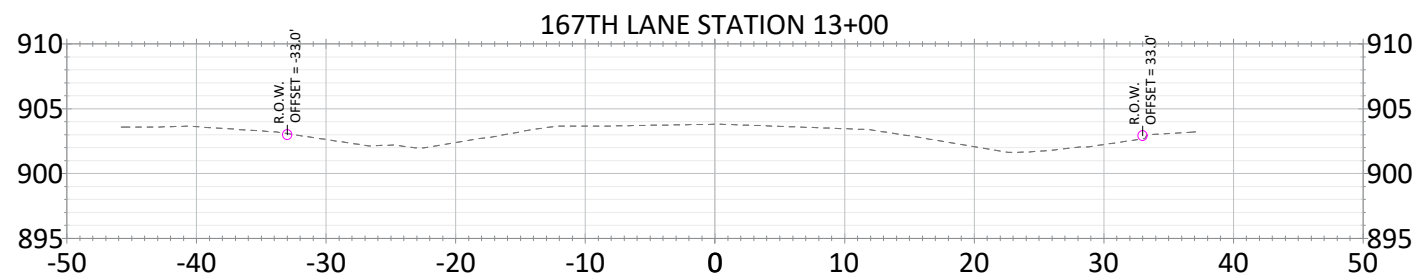
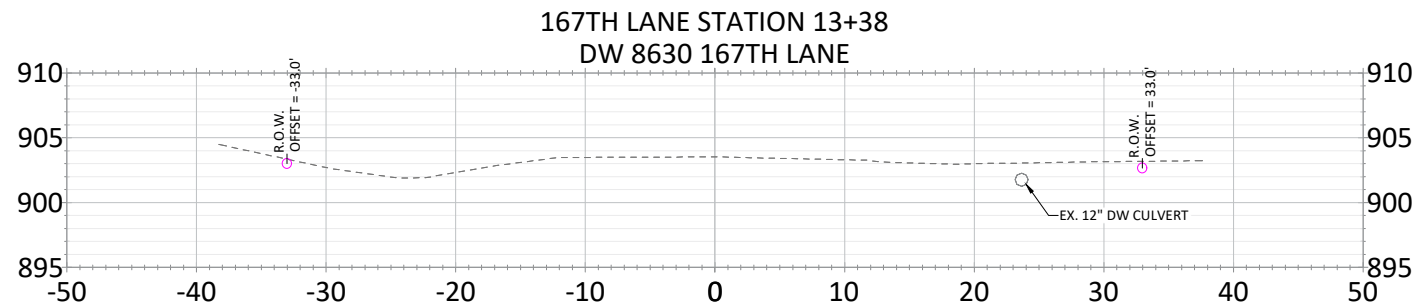
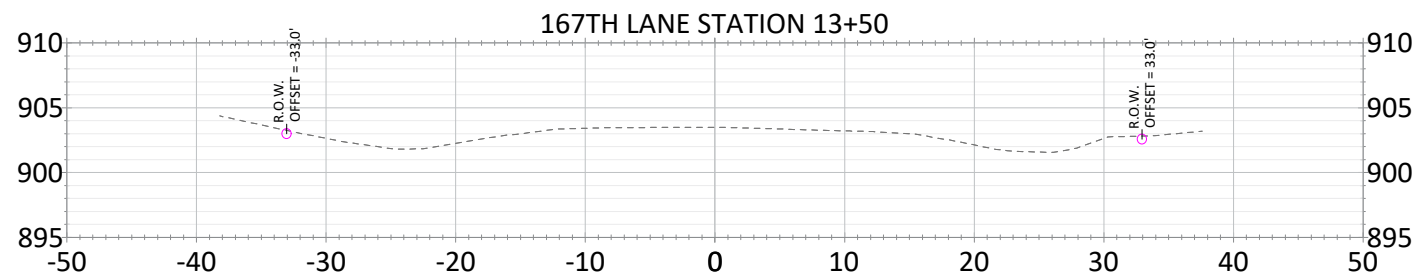
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
167TH LN 7+50 TO 11+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



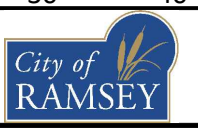
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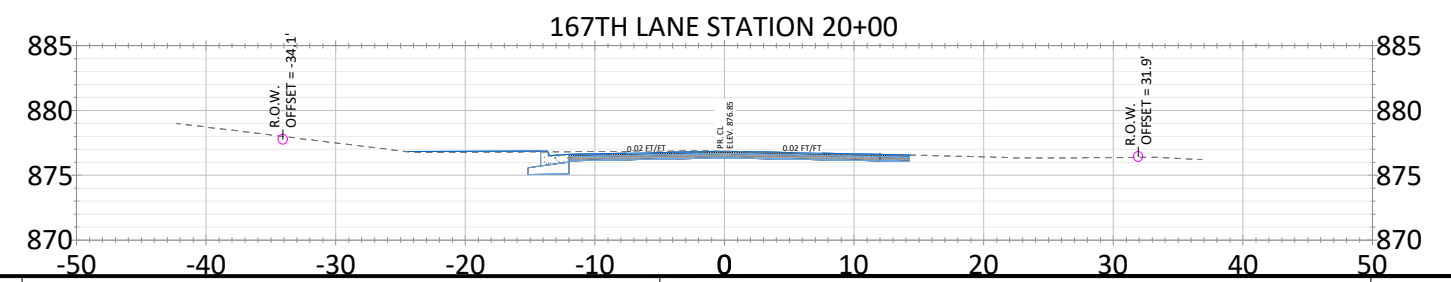
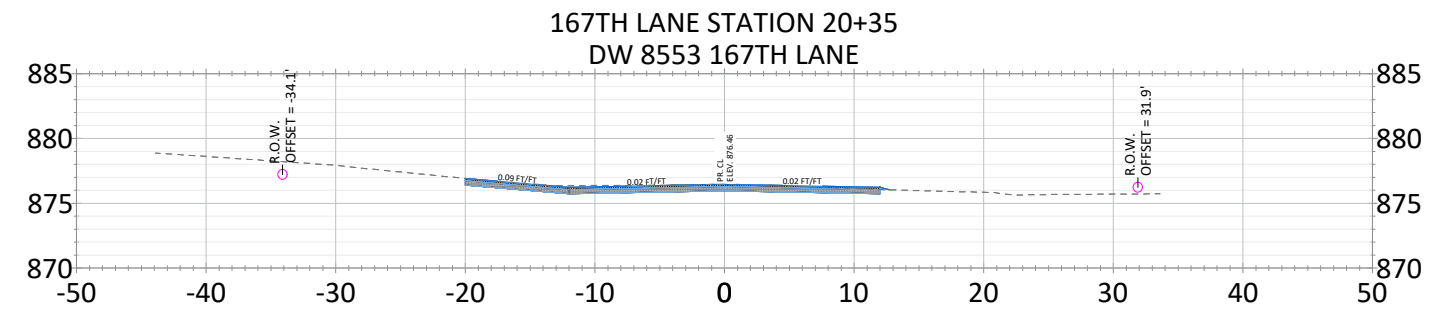
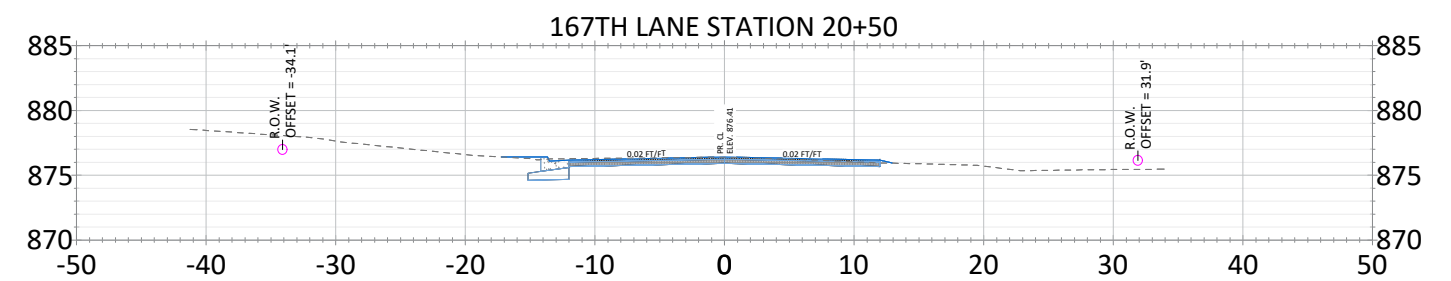
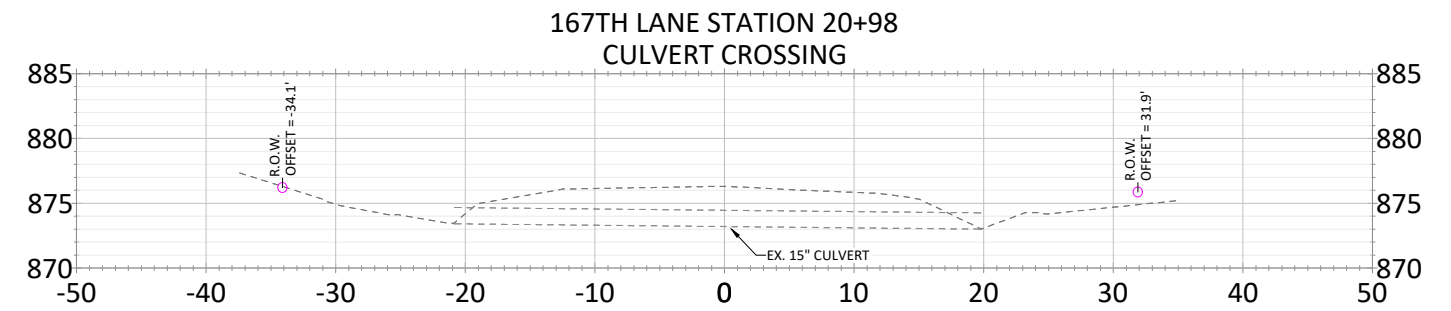
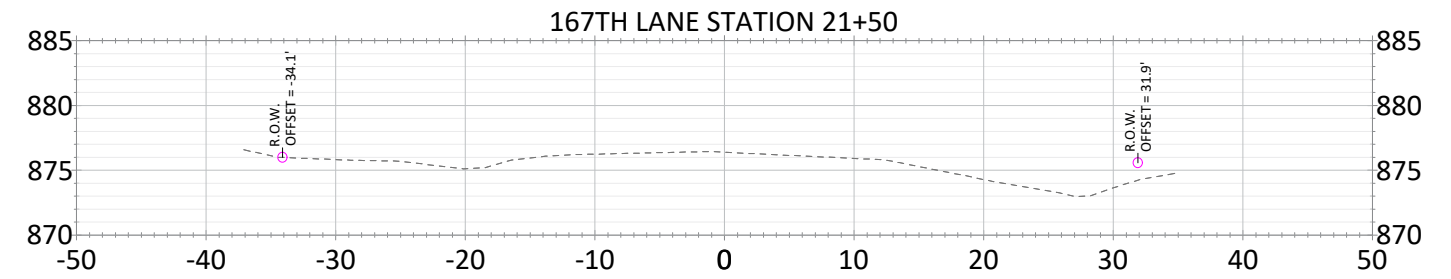
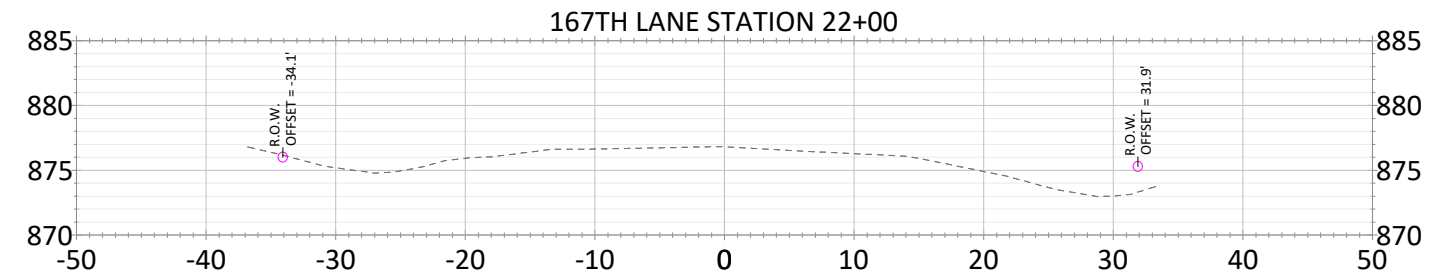
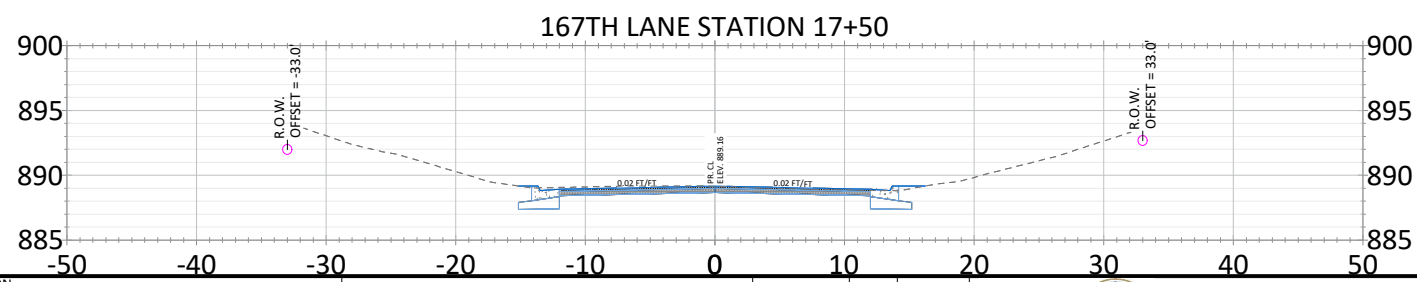
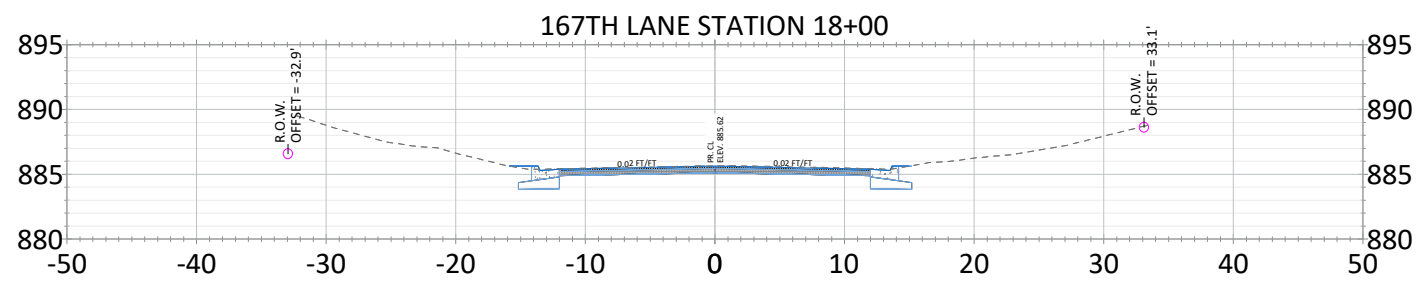
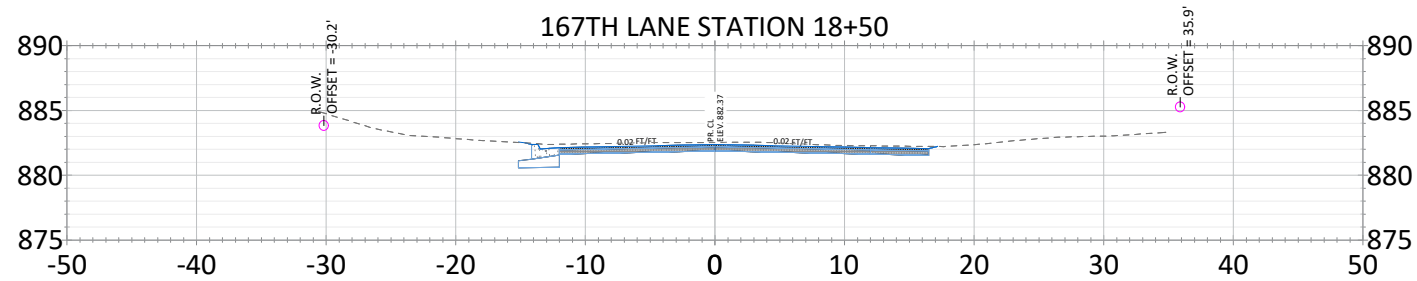
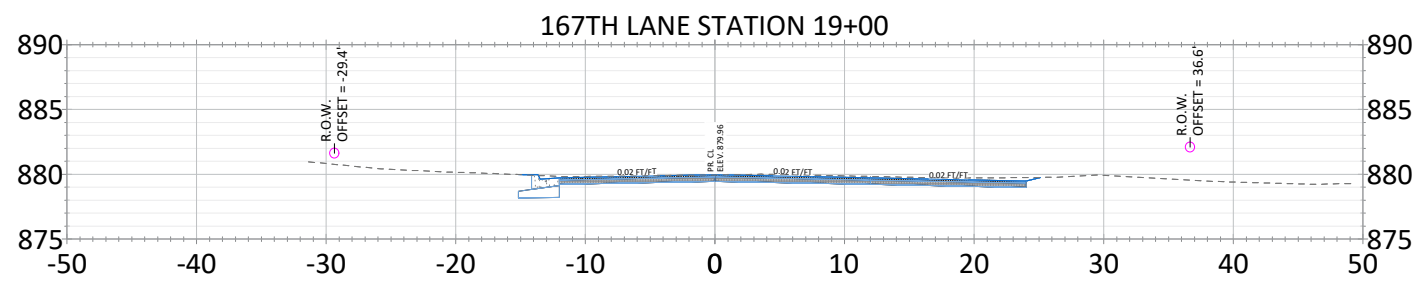
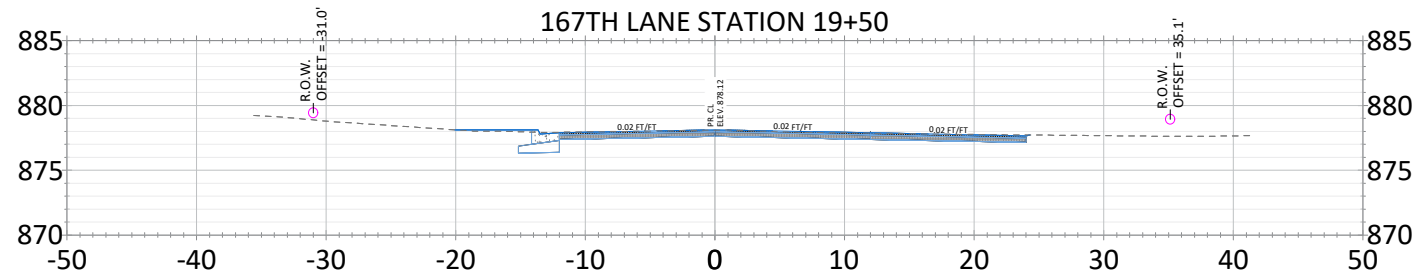
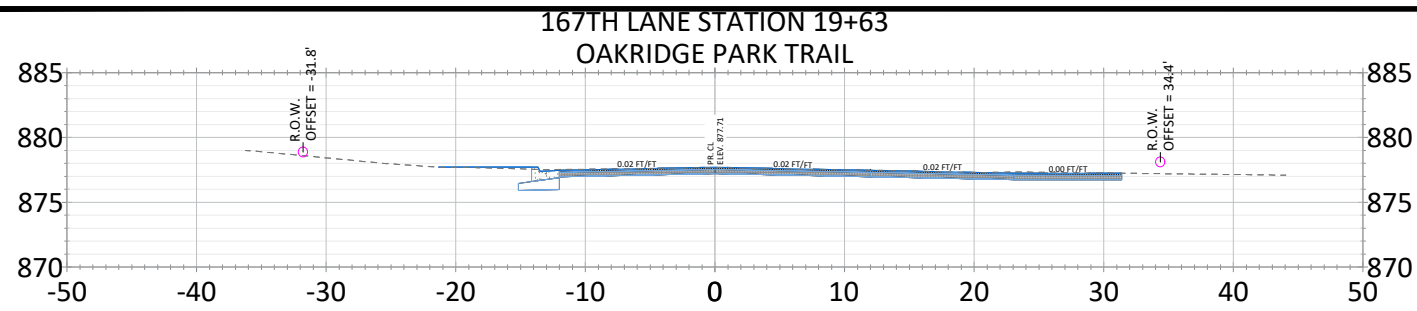
DATE: 6/28/22
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CITY OF RAMSEY
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 RAMSEY, MN 55303
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CROSS SECTIONS
 167TH LN 11+98 TO 17+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
 CITY PROJECT NO. 22-02
 CITY OF RAMSEY, MINNESOTA



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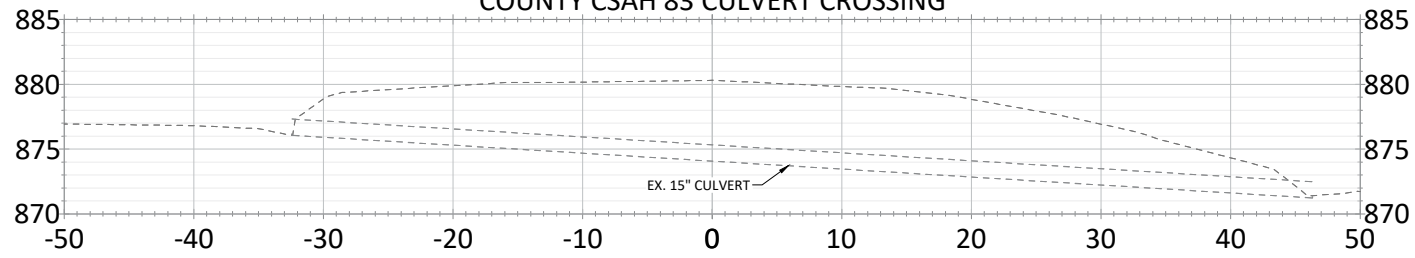
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CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
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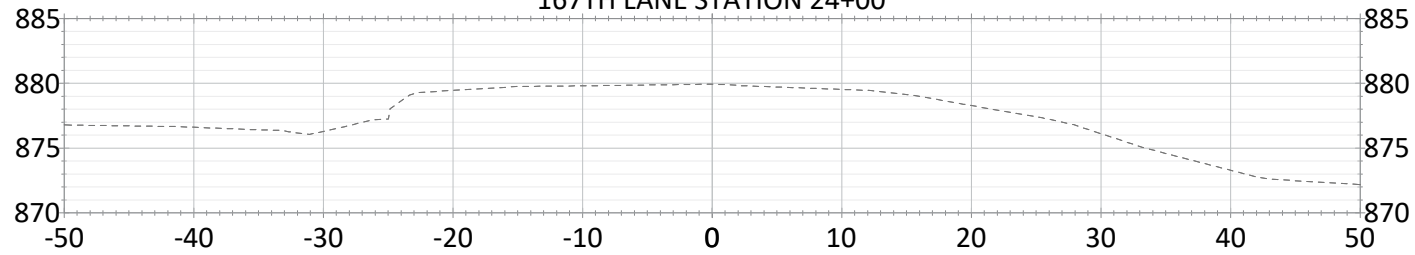
CROSS SECTIONS
167TH LN 17+50 TO 22+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA

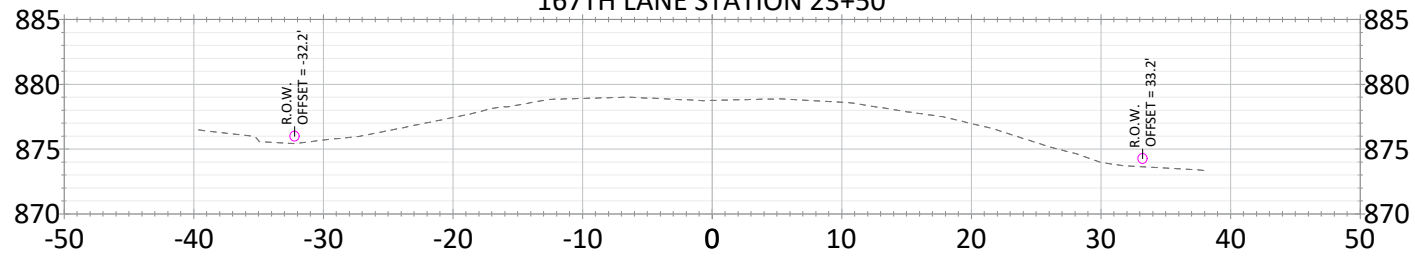
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COUNTY CSAH 83 CULVERT CROSSING



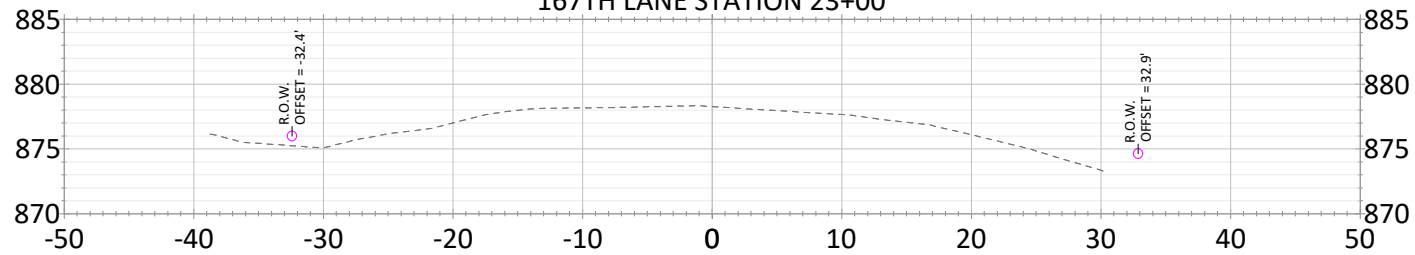
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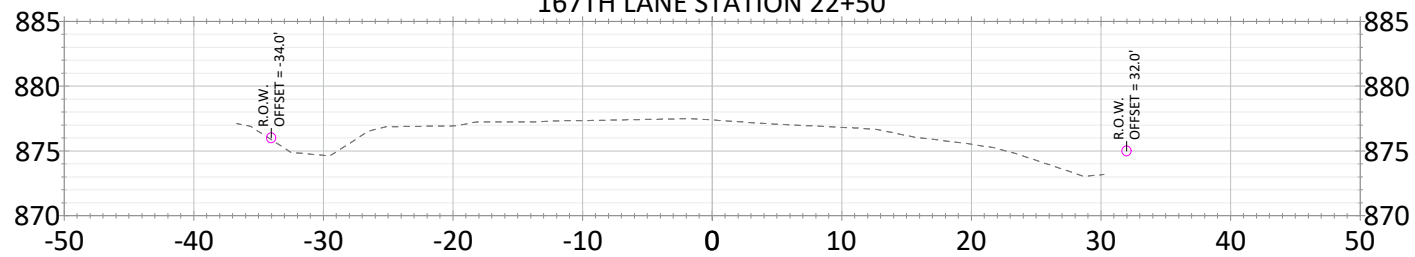
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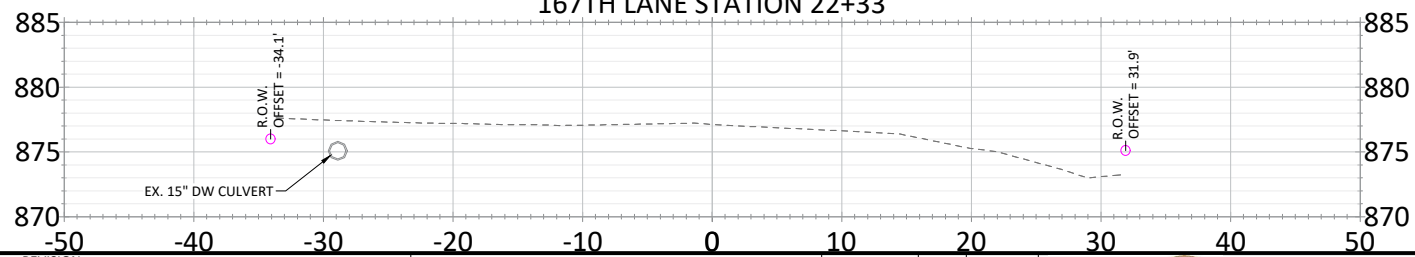
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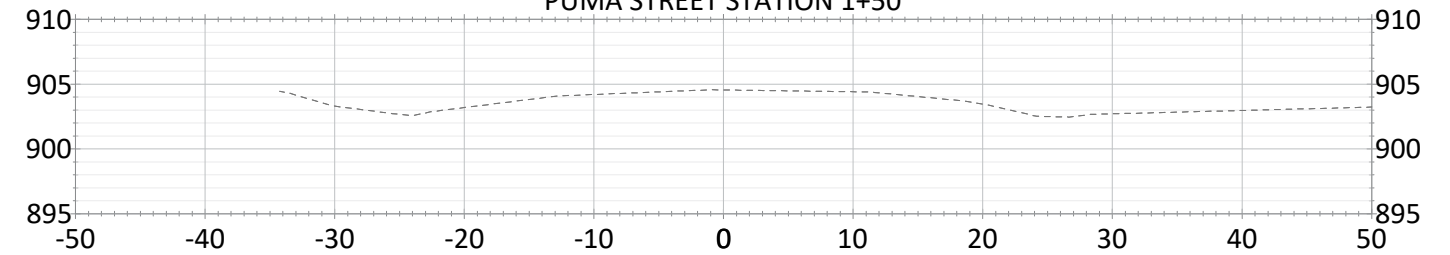
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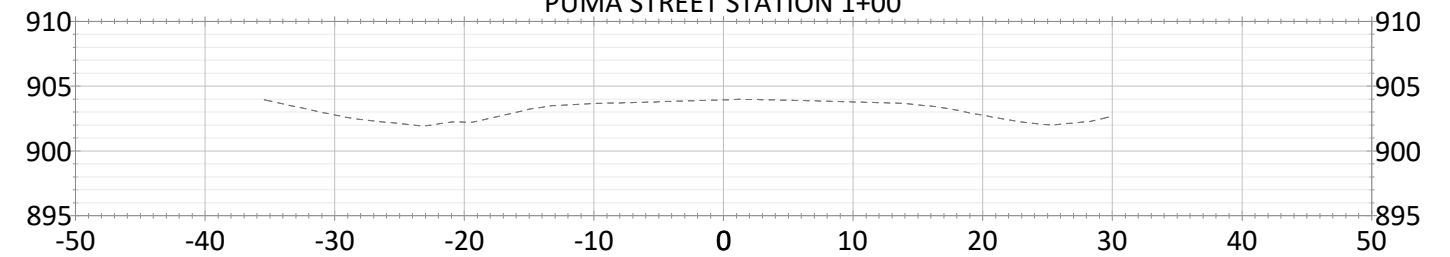
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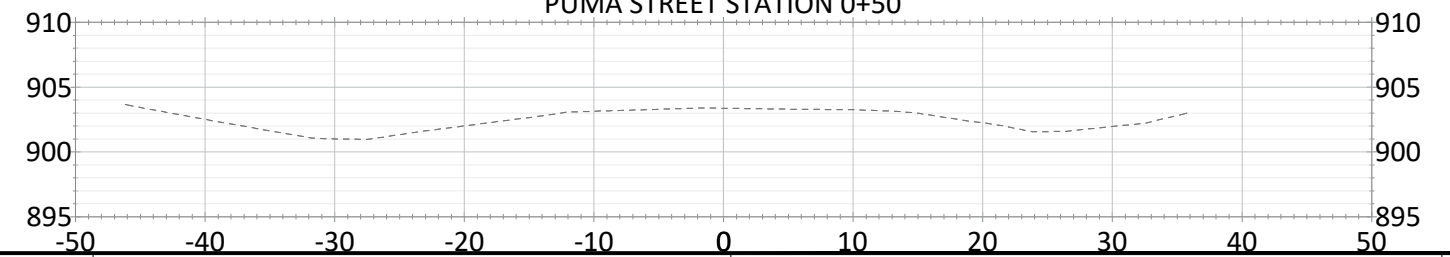
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PUMA STREET STATION 1+00



PUMA STREET STATION 0+50



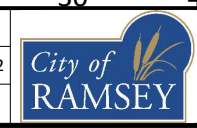
DATE	REVISION

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JOE FERIANCEK
Date: 6/28/22 Lic. No. 57095

DESIGNED BY: JJF
DRAWN BY: JJF
CHECKED BY: JJF

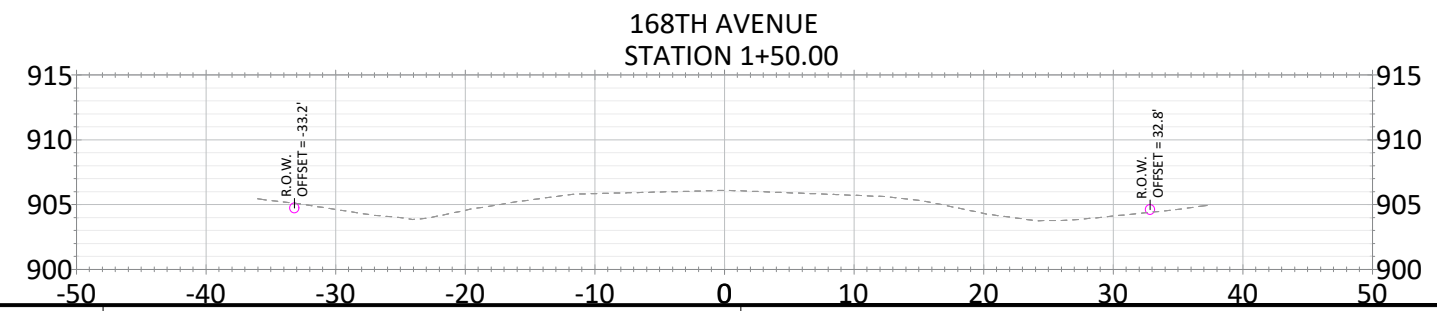
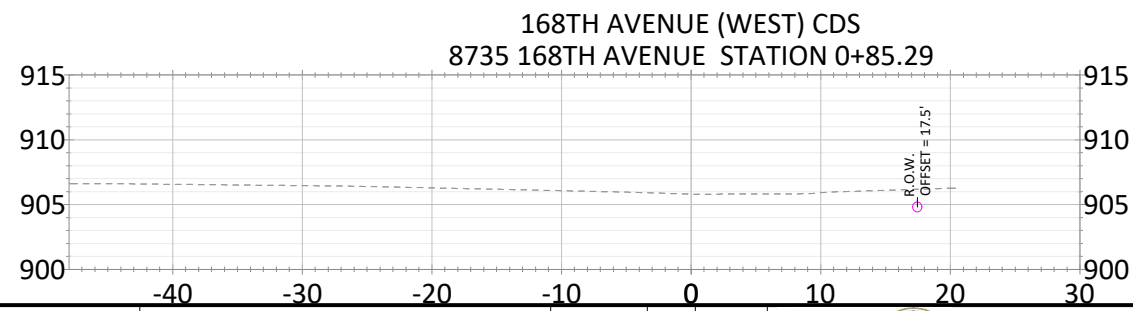
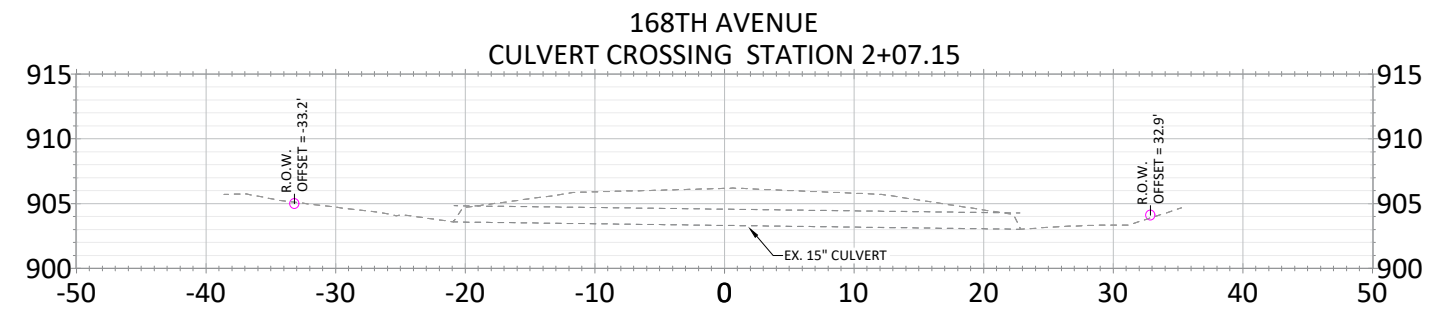
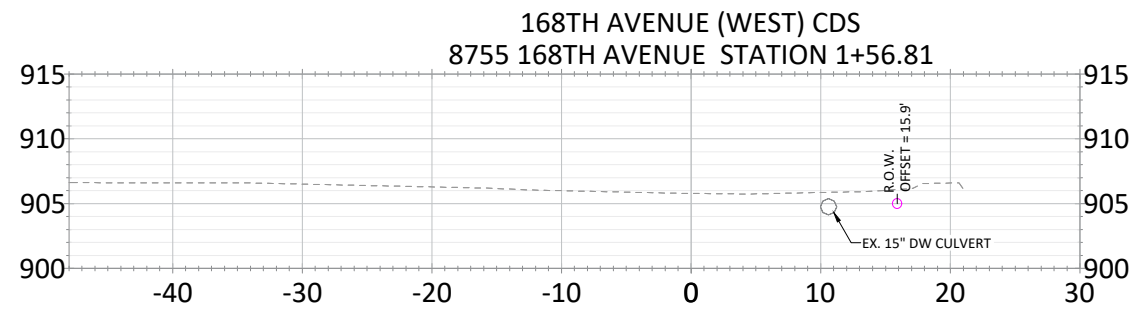
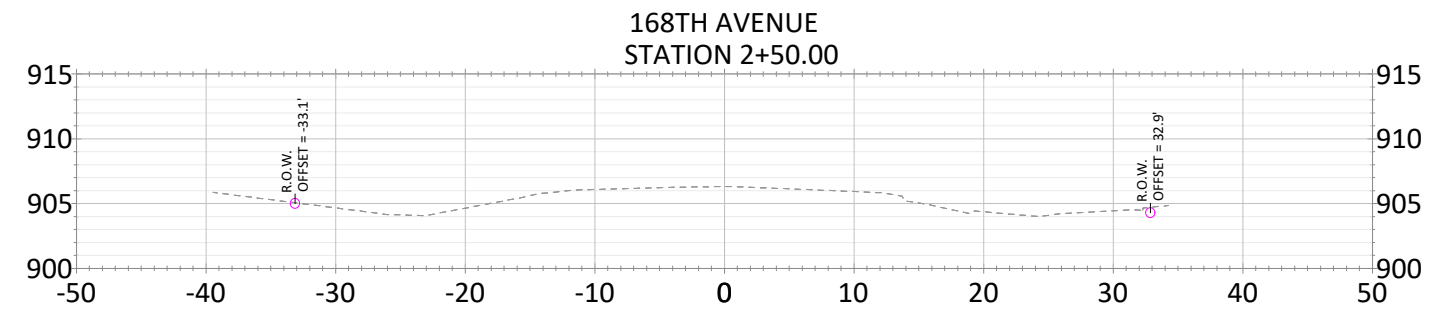
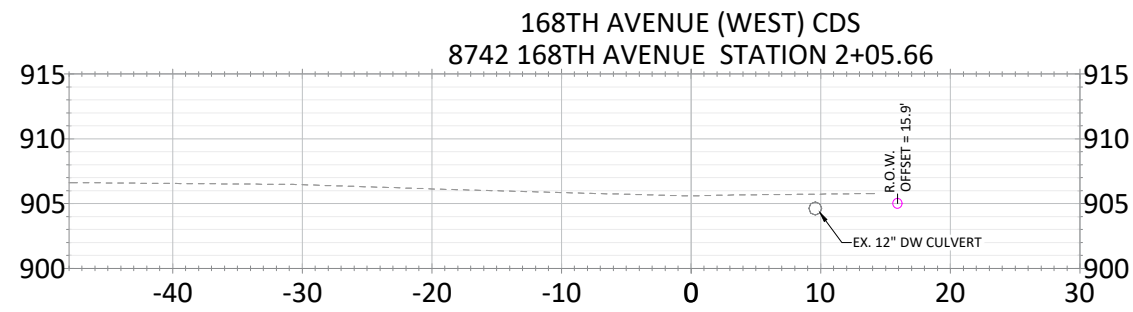
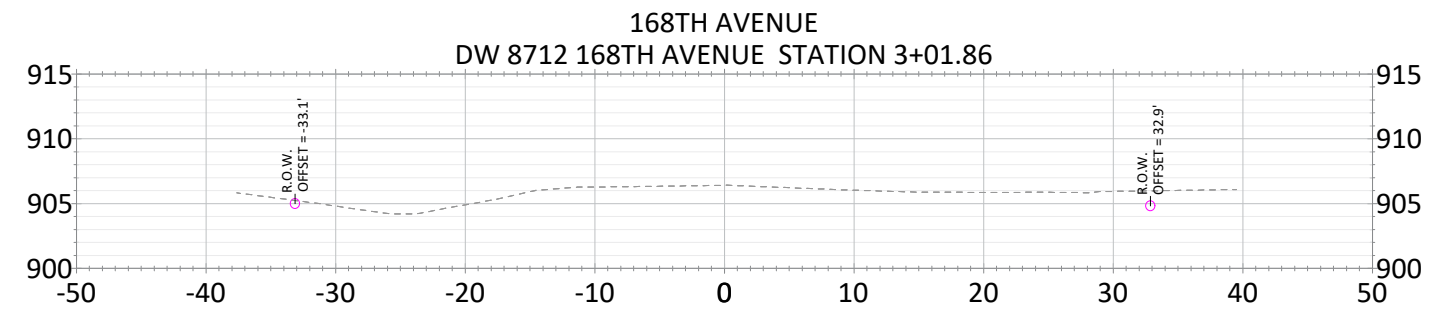
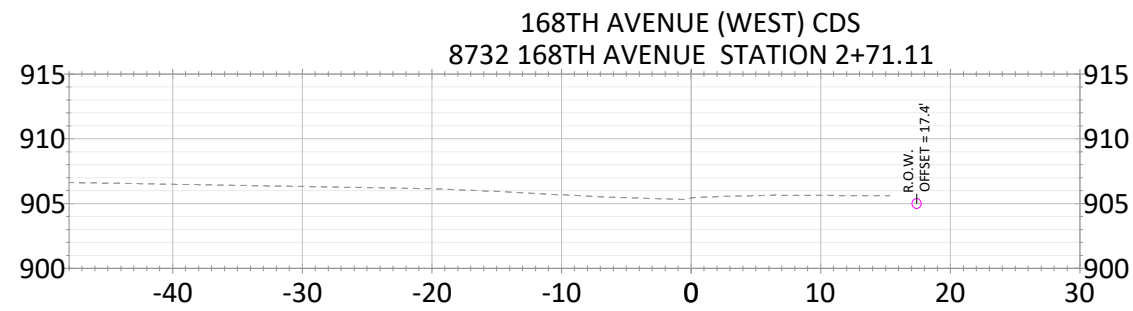
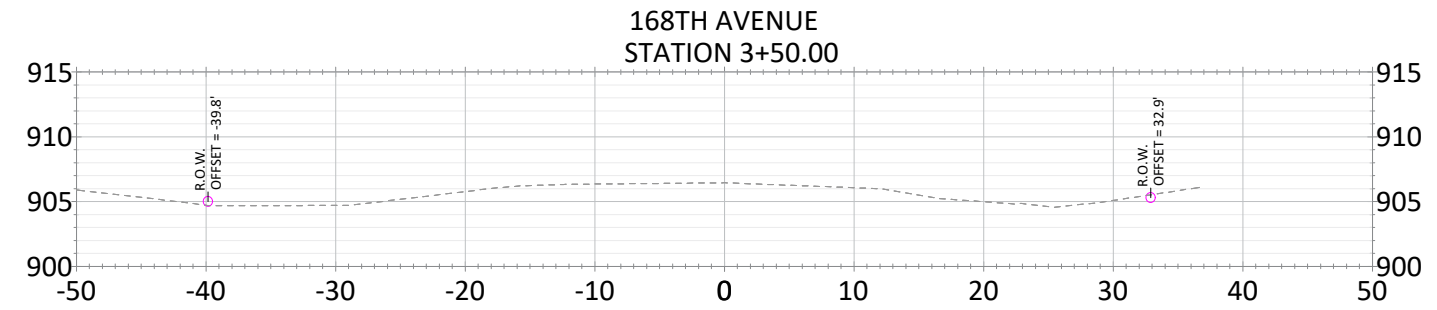
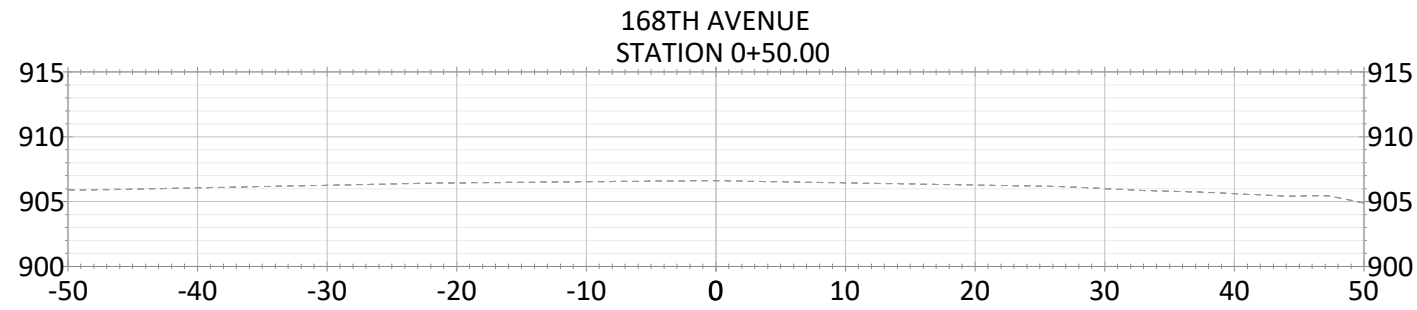
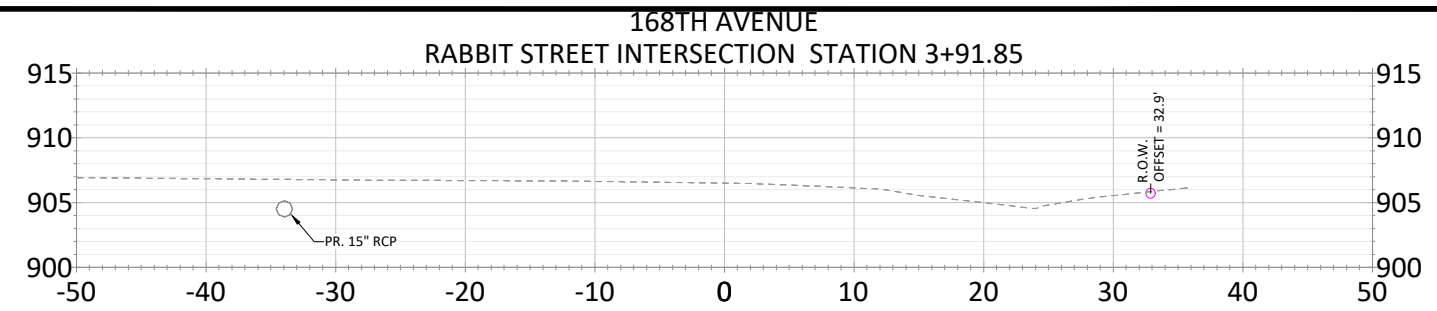
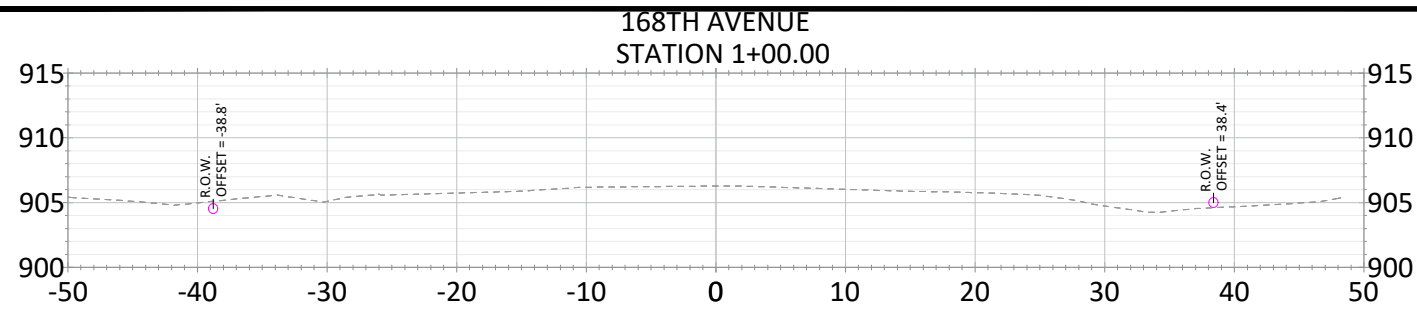
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
167TH LN 22+35 TO 24+15
& PUMA ST

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



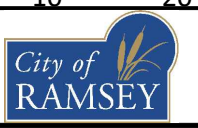
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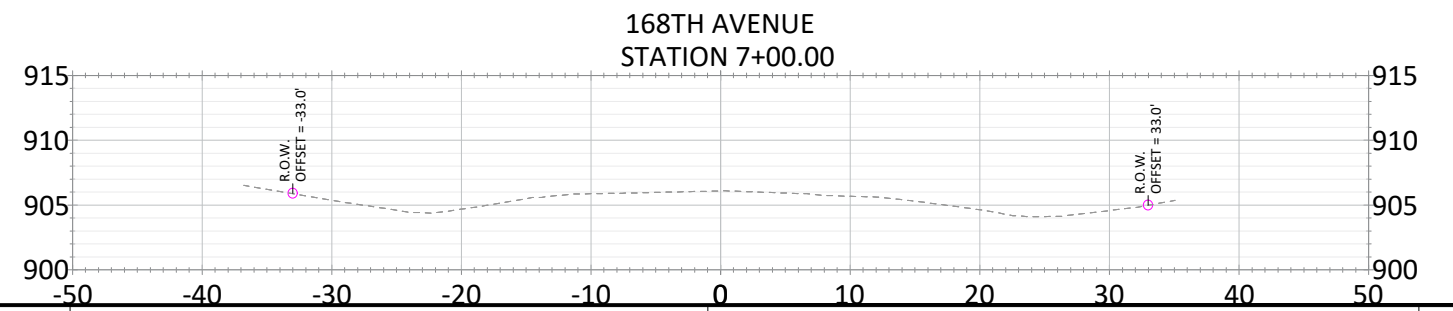
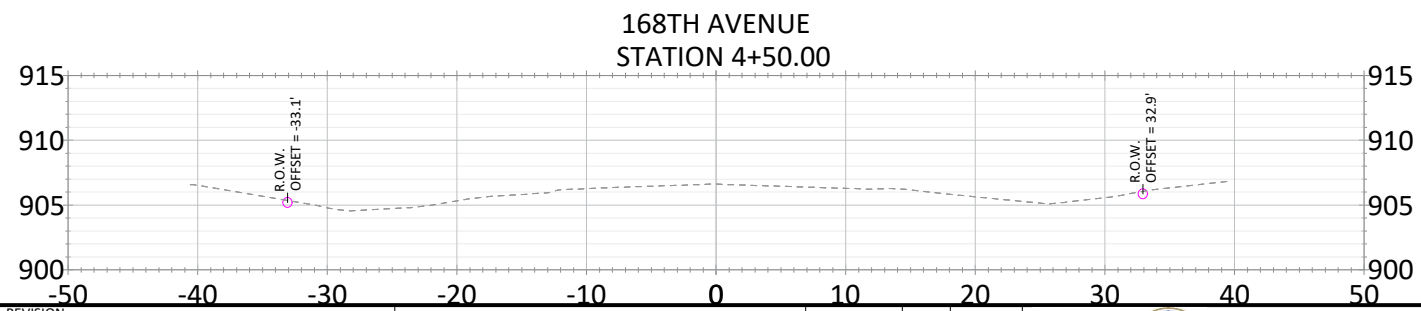
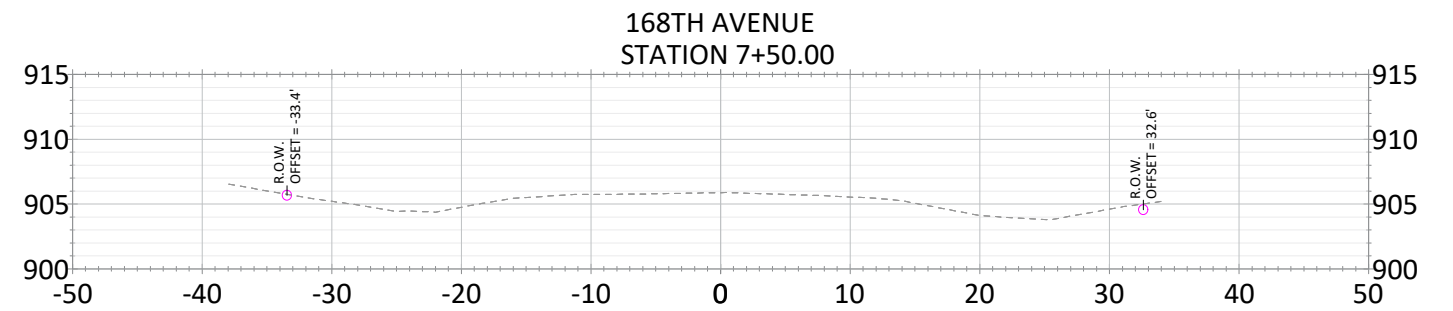
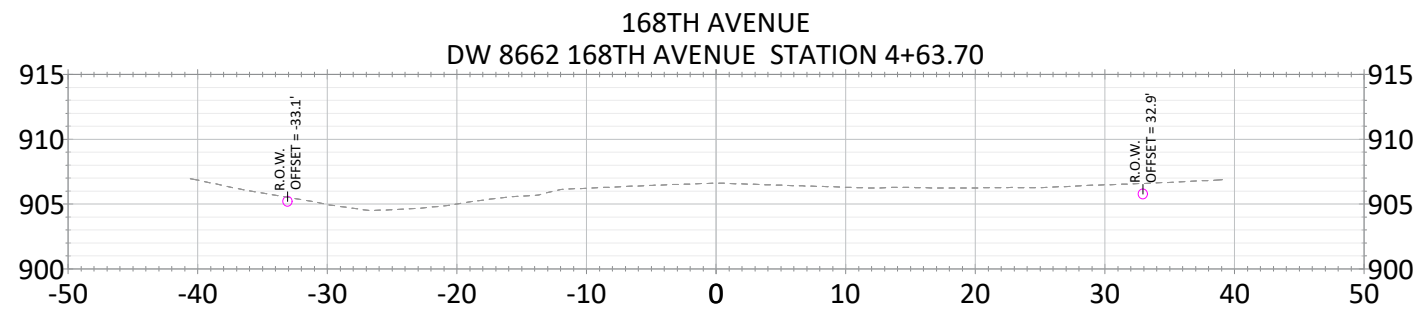
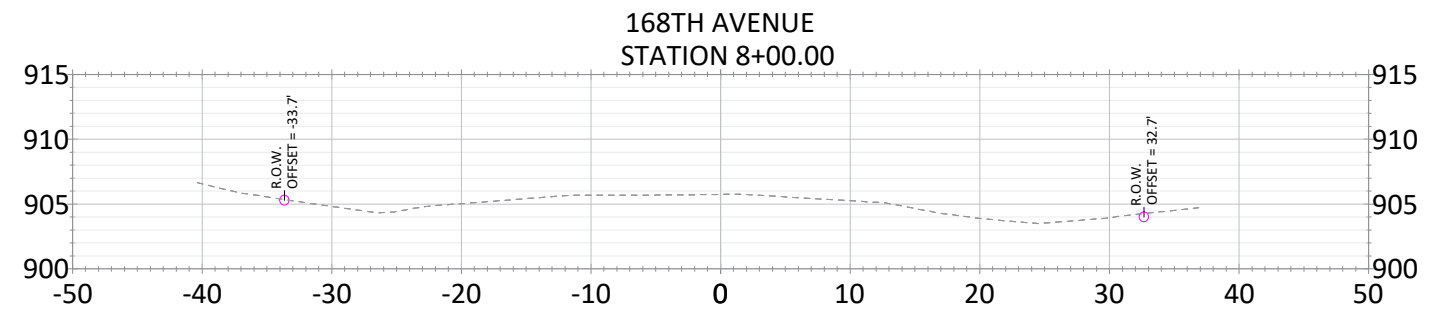
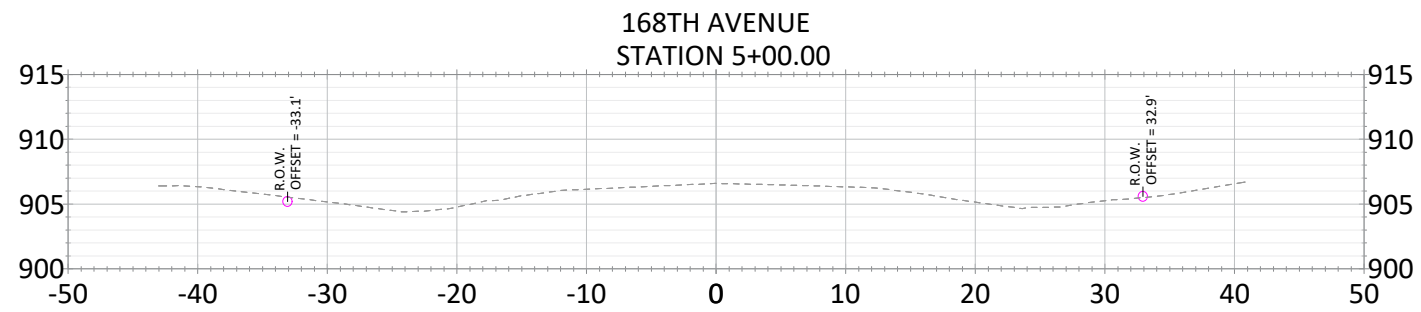
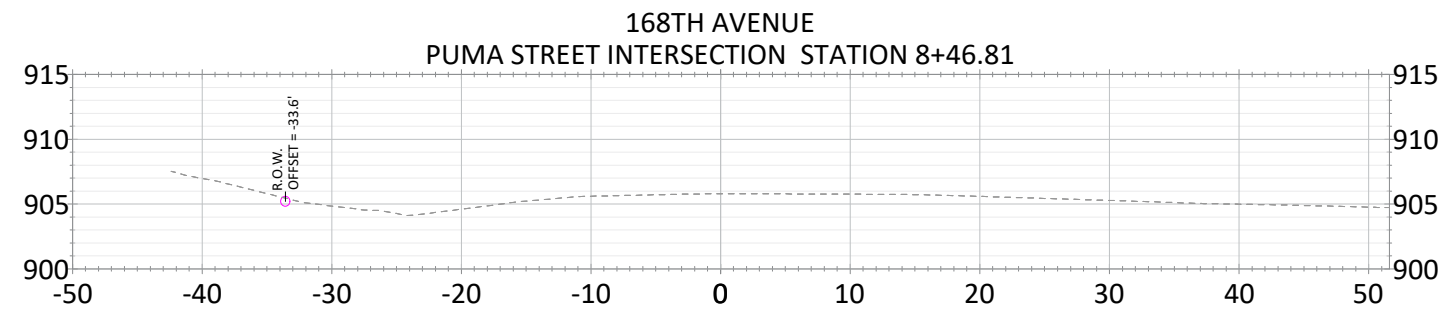
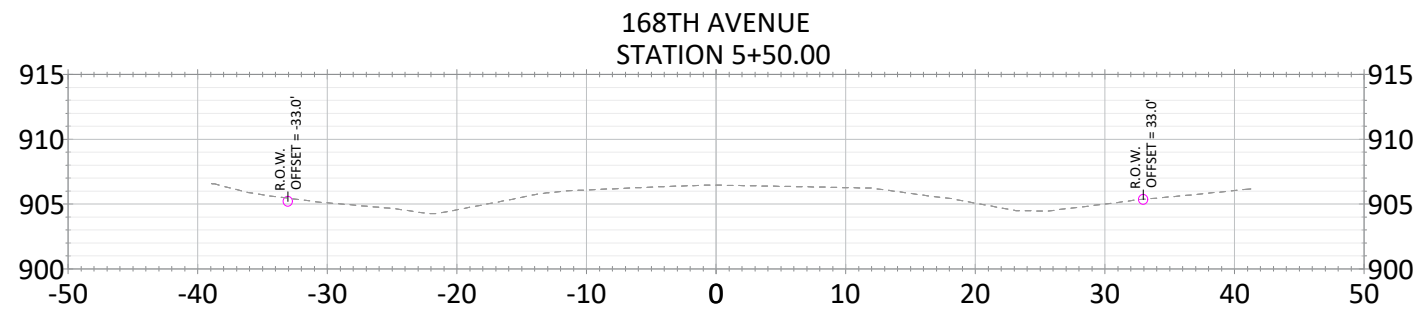
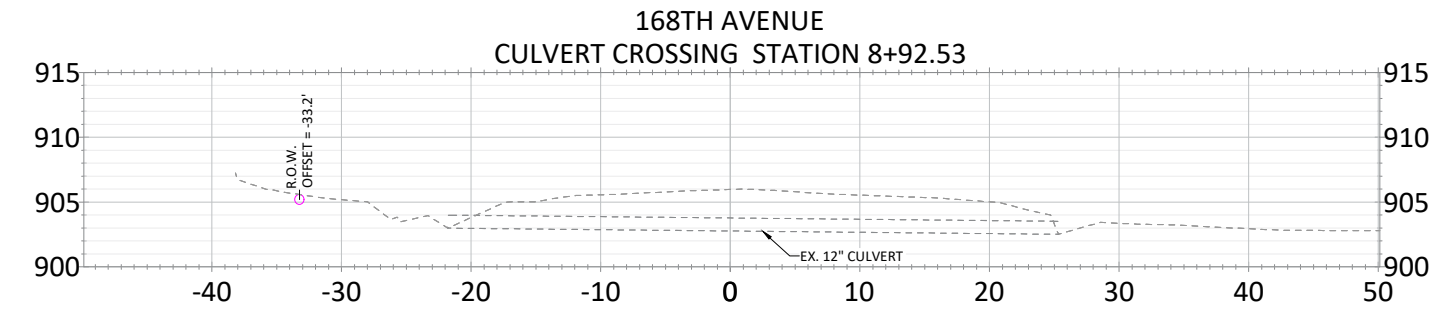
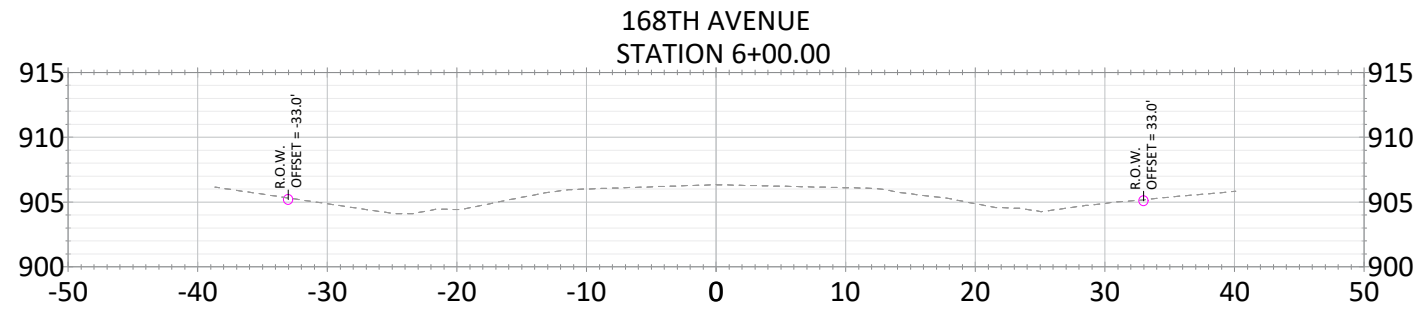
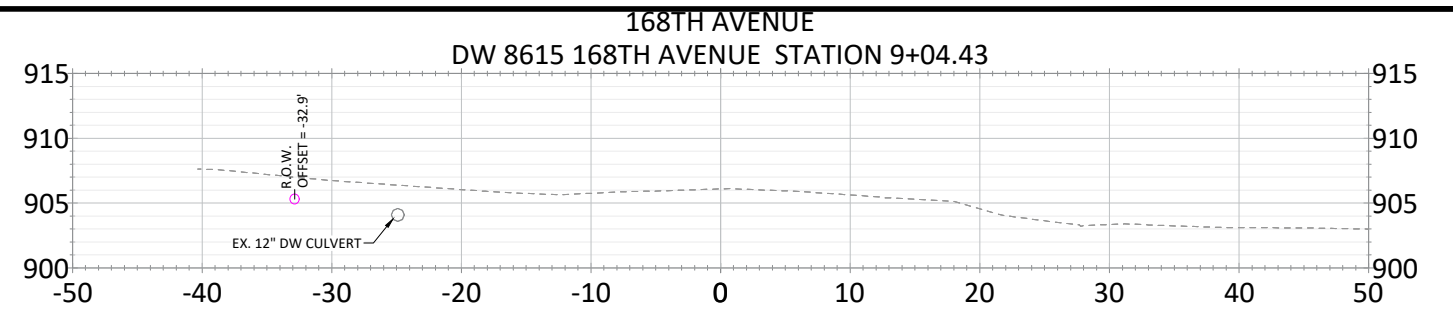
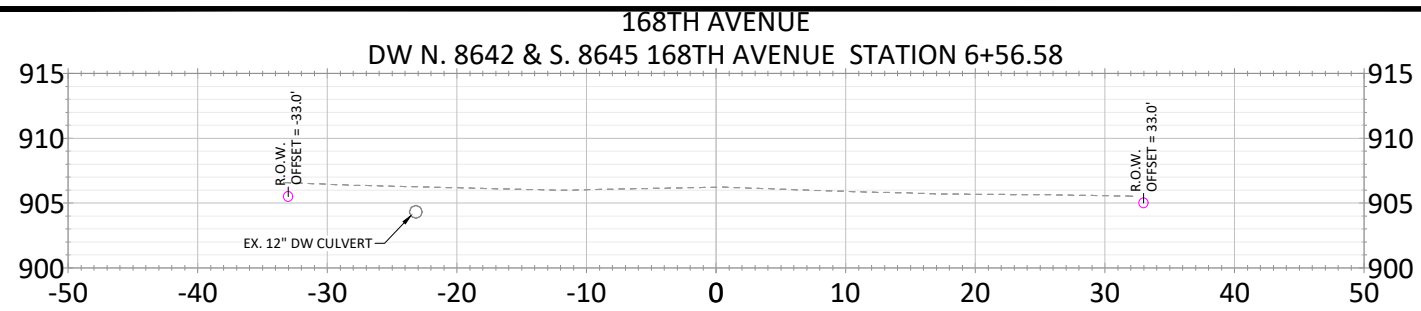
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
168TH AVE W.CDS TO 3+92

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



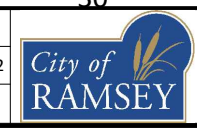
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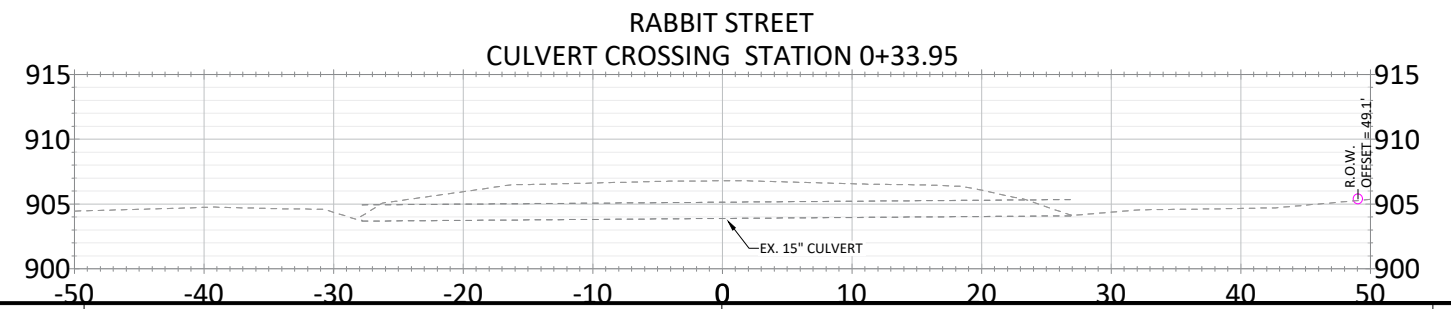
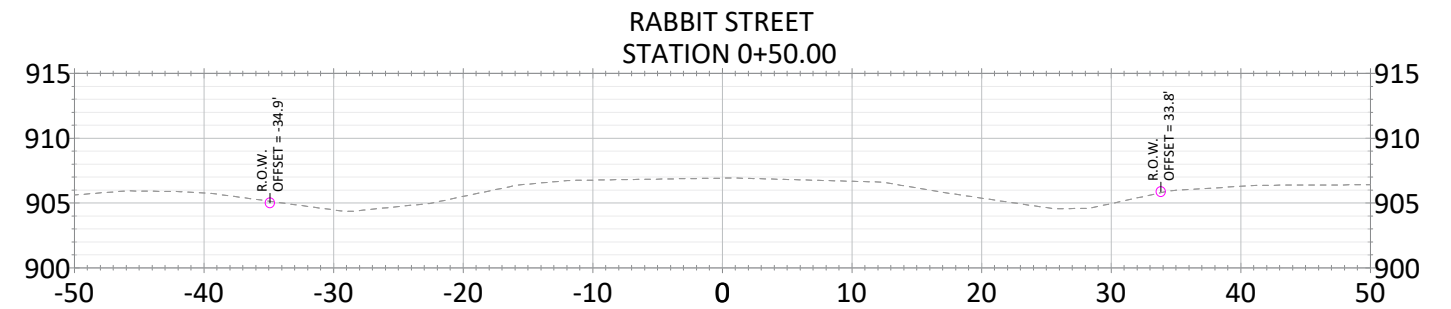
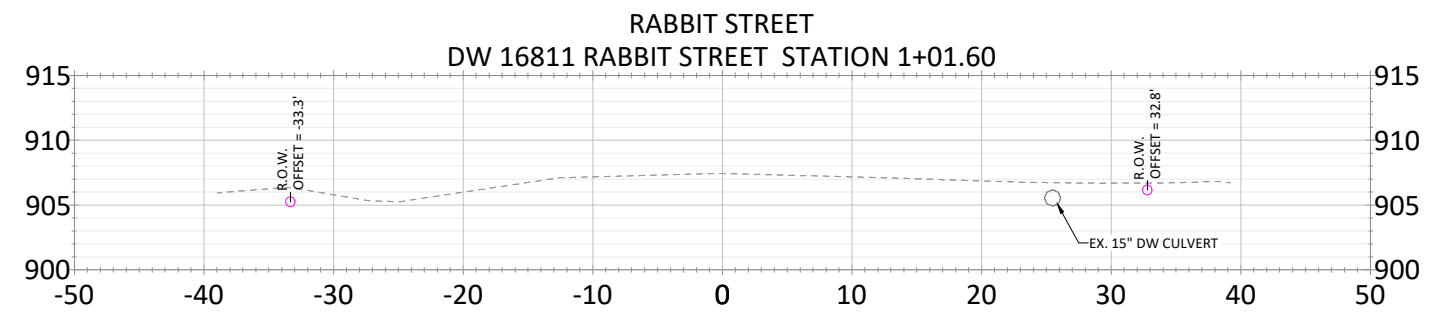
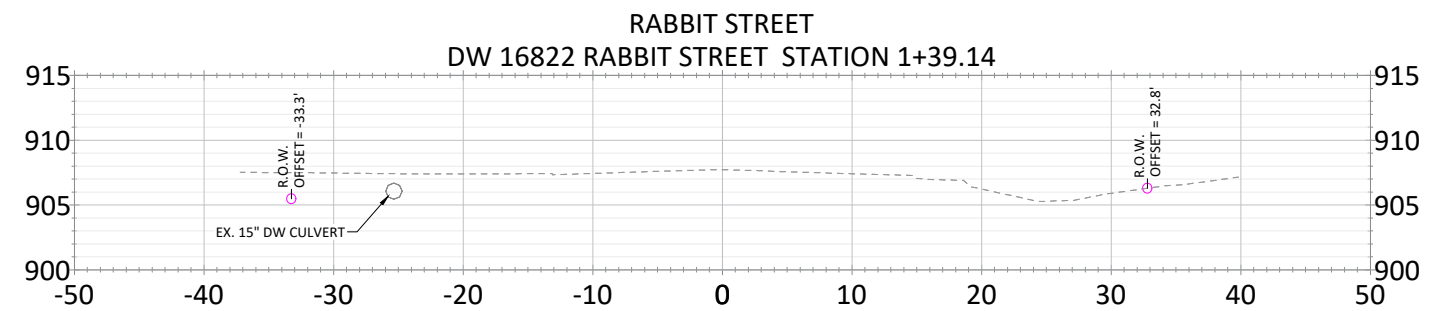
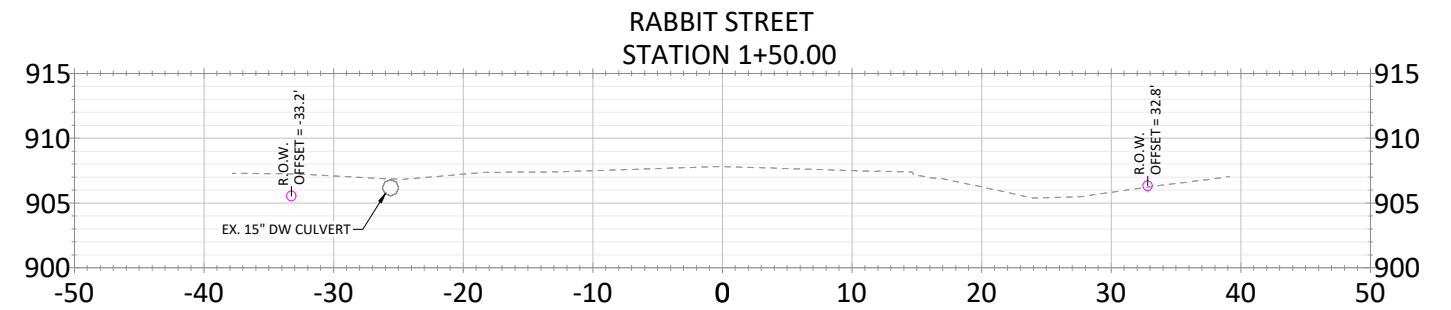
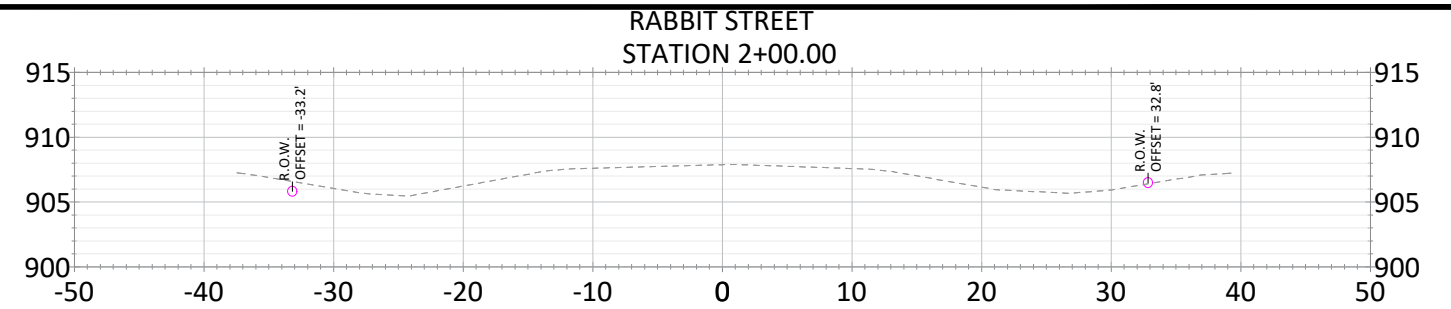
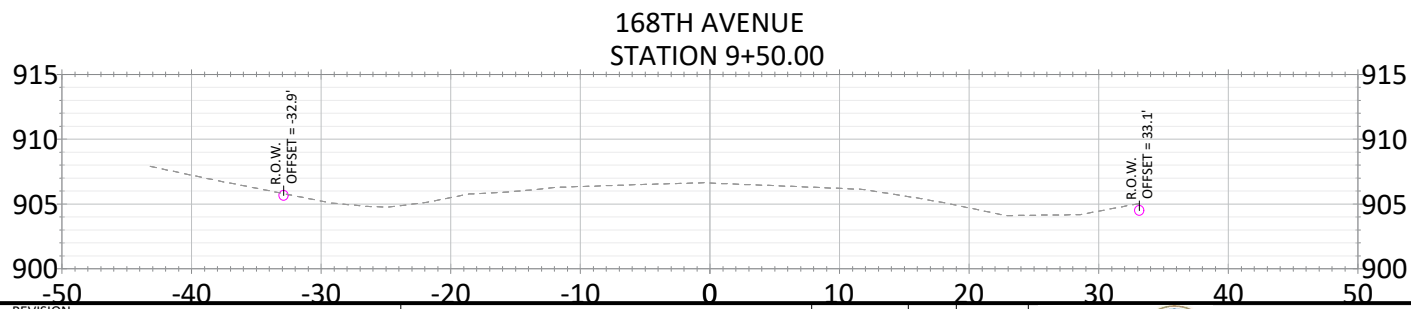
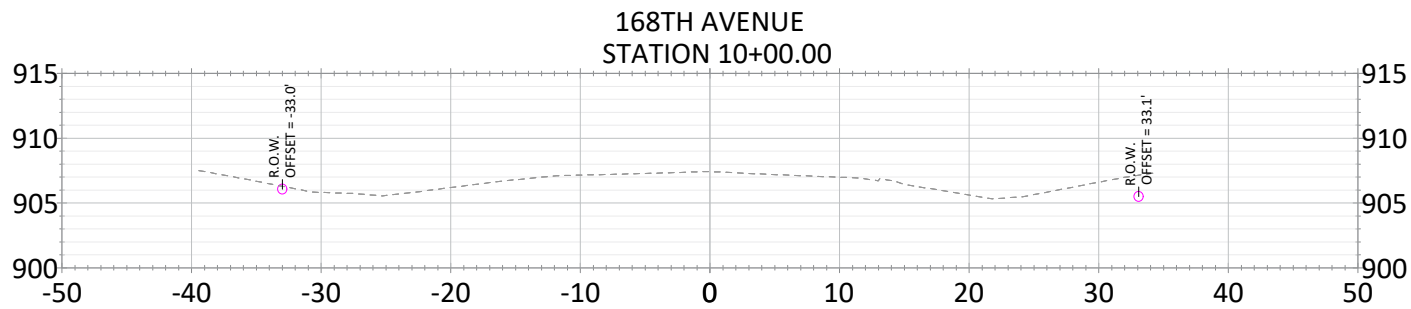
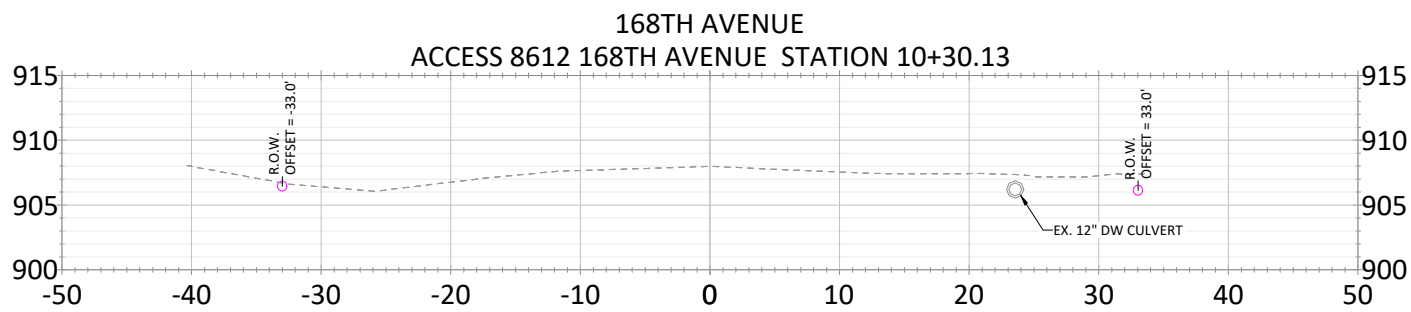
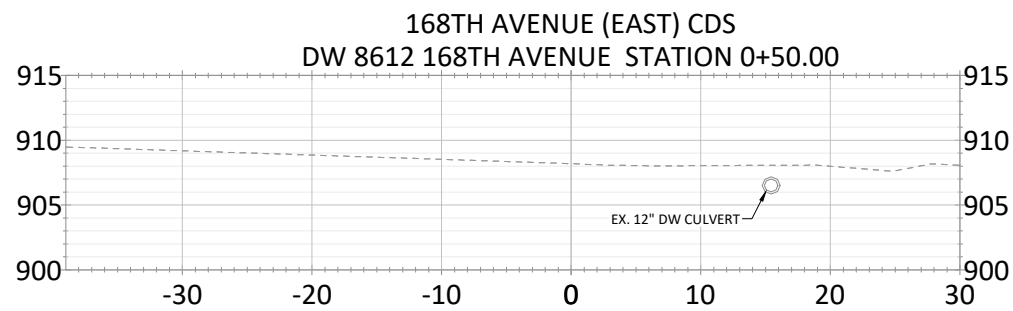
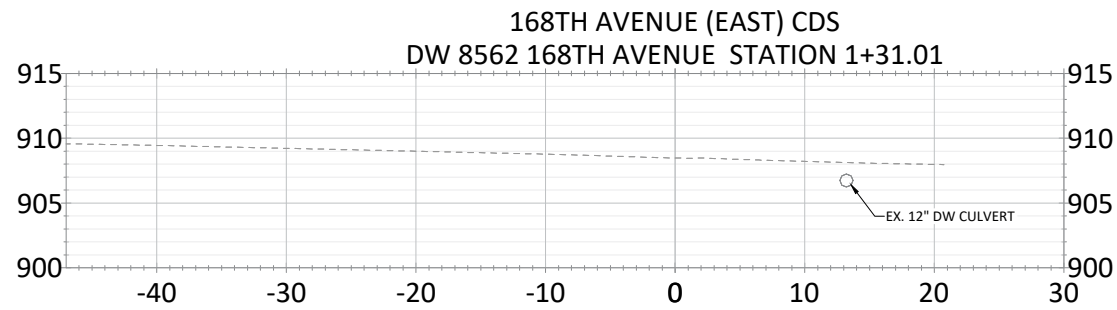
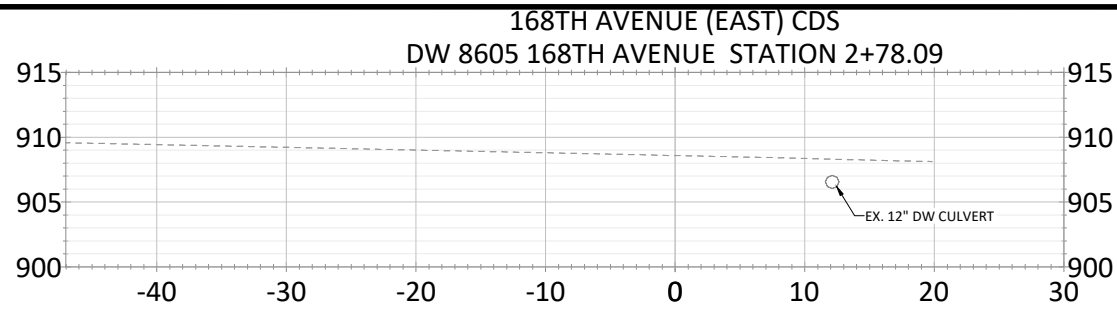
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
168TH AVE 4+50 TO 9+04

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



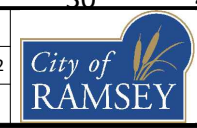
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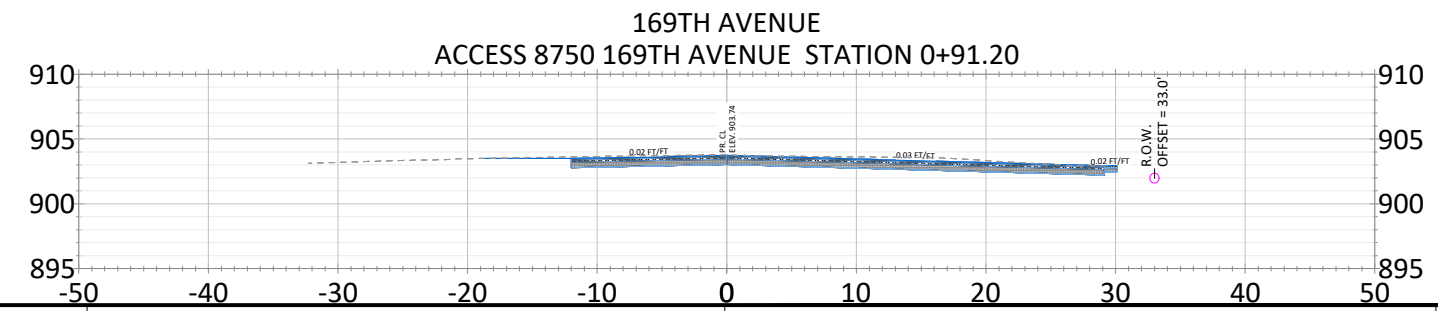
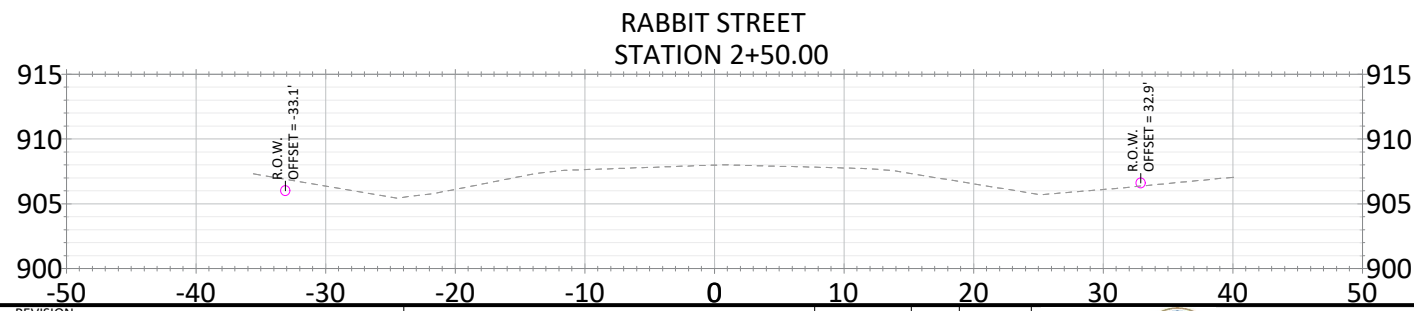
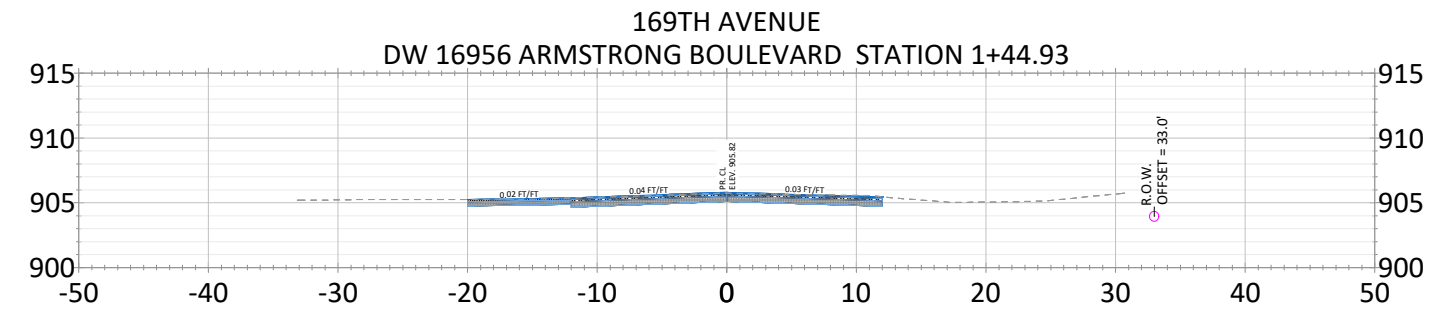
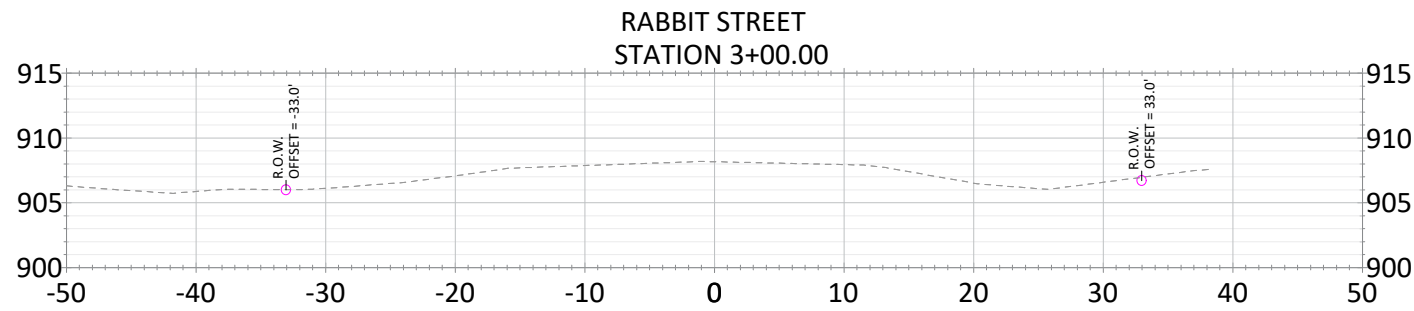
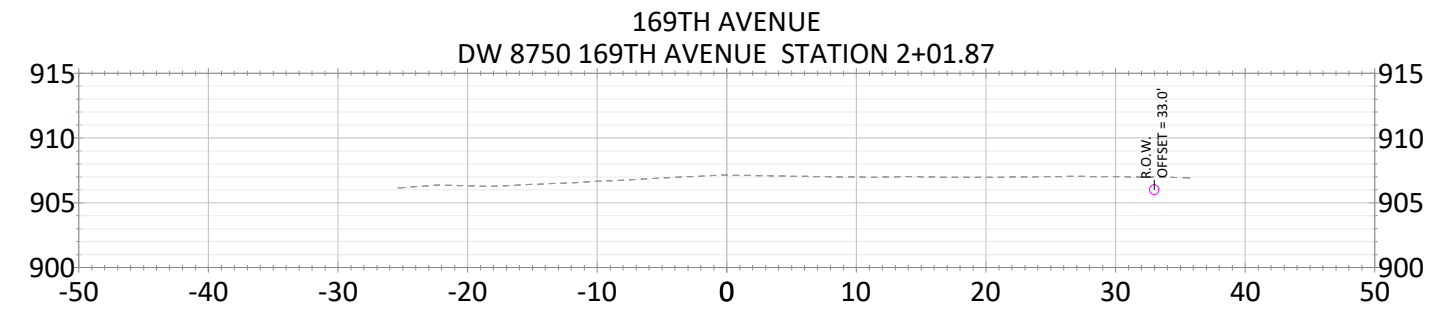
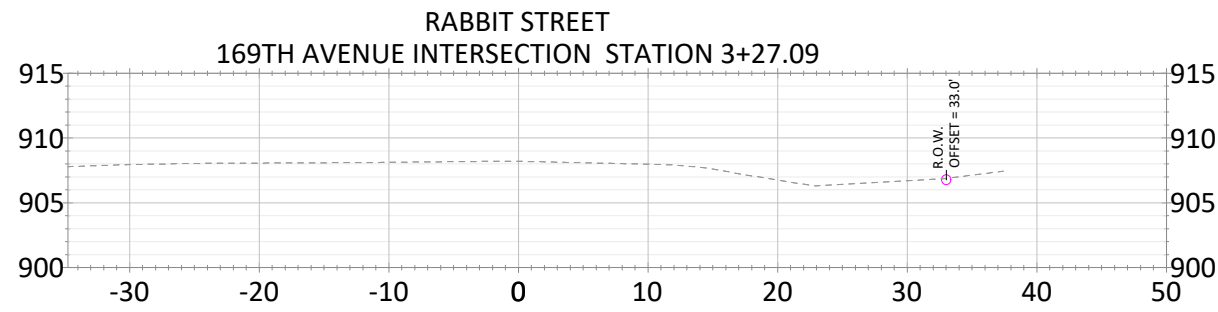
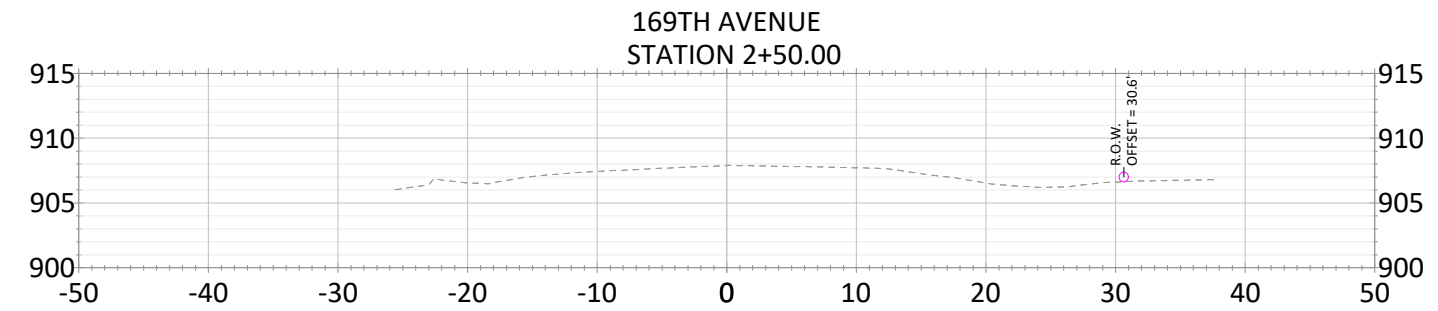
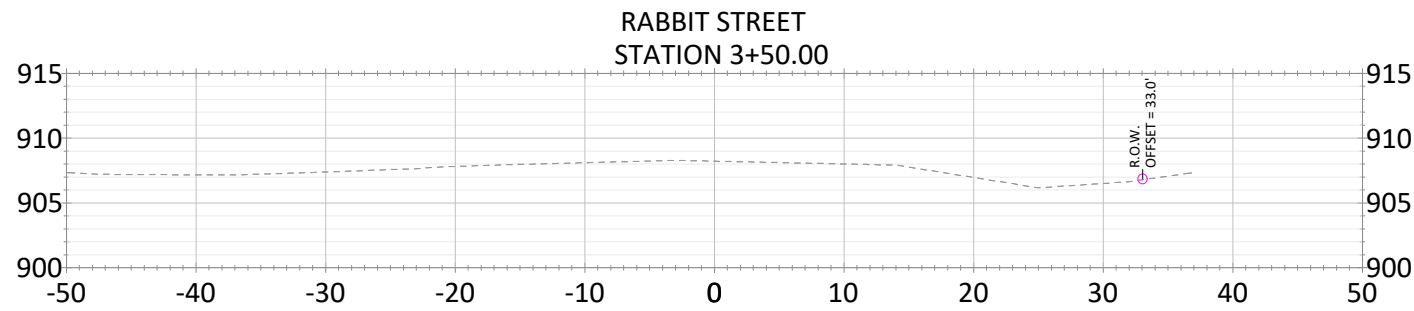
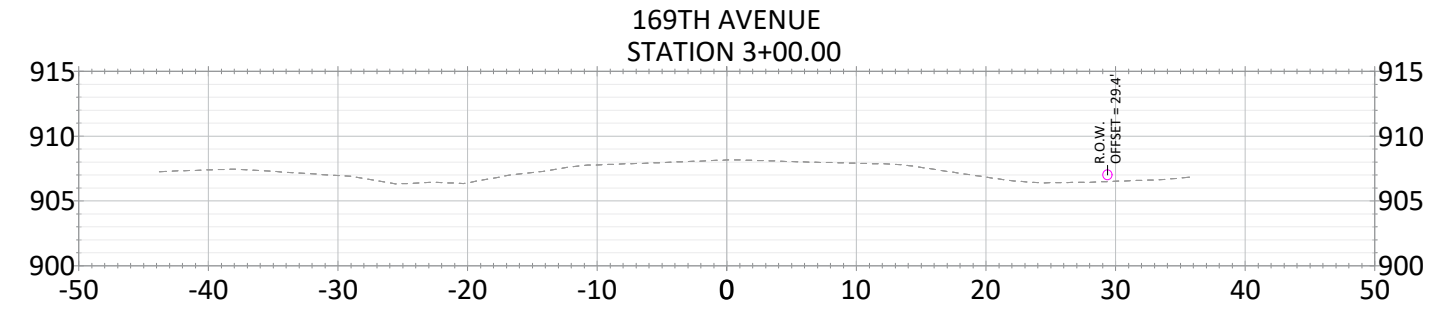
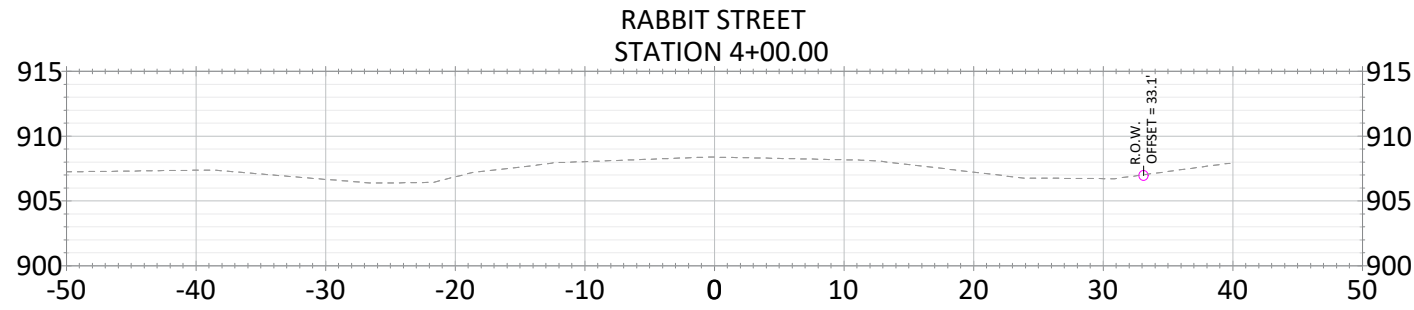
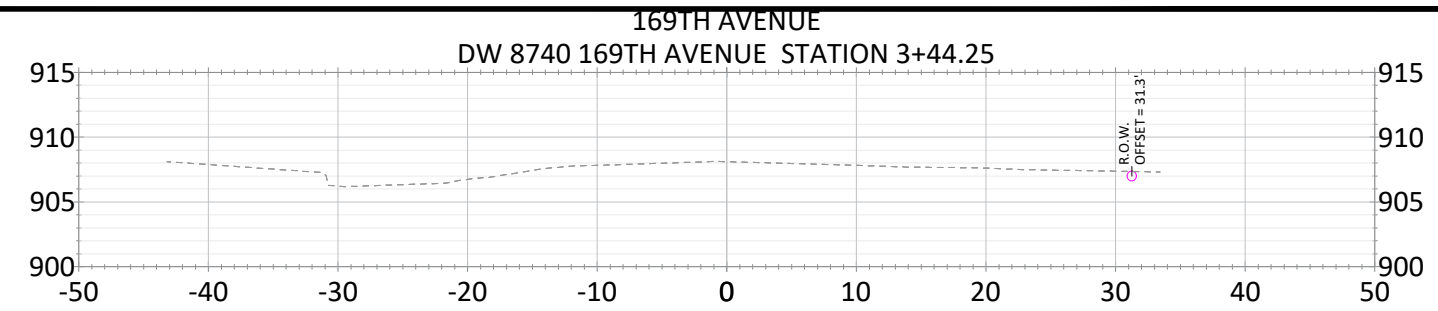
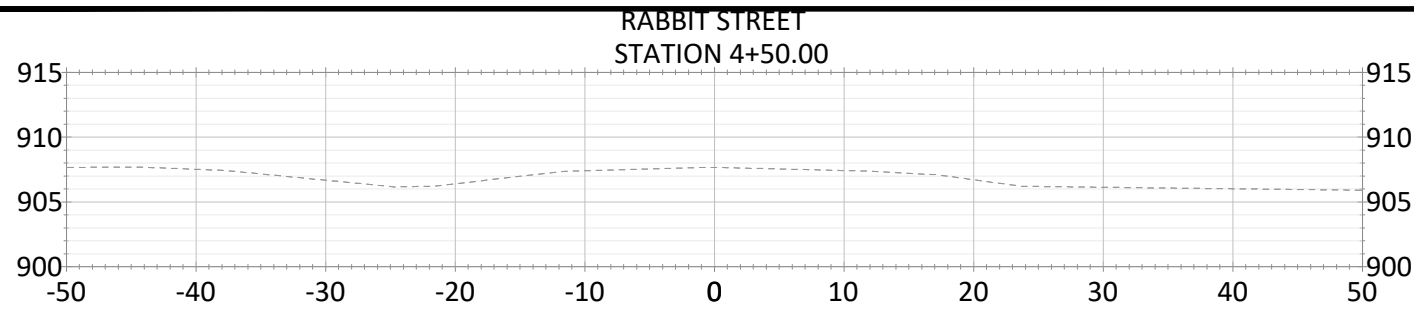
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
168TH AVE E. END &
RABBIT 0+34 TO 2+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



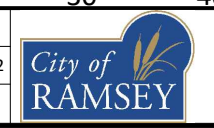
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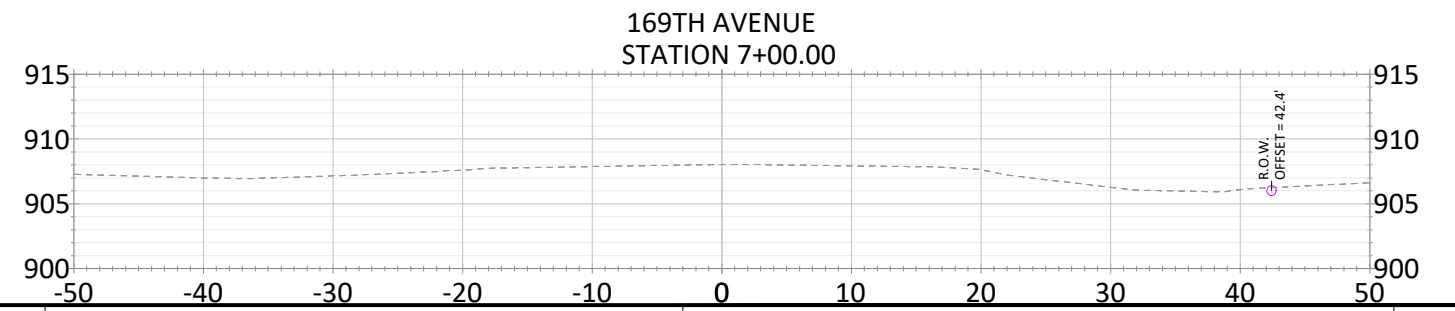
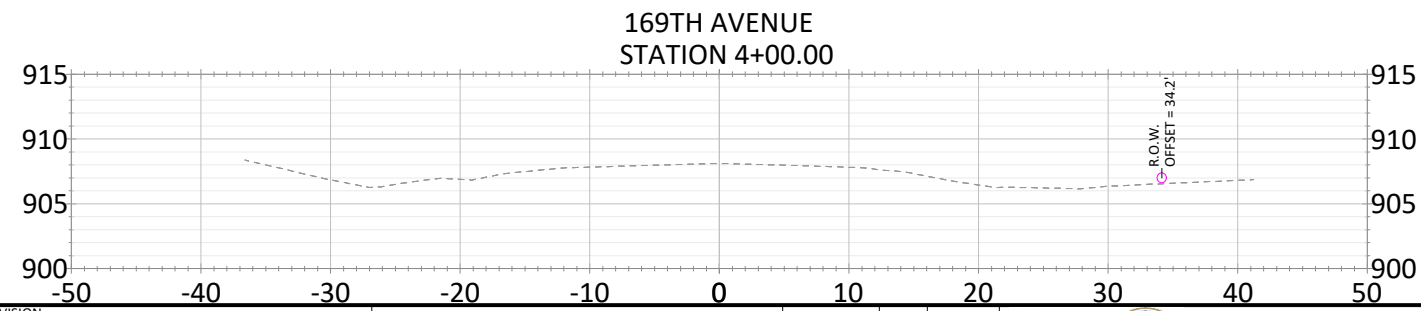
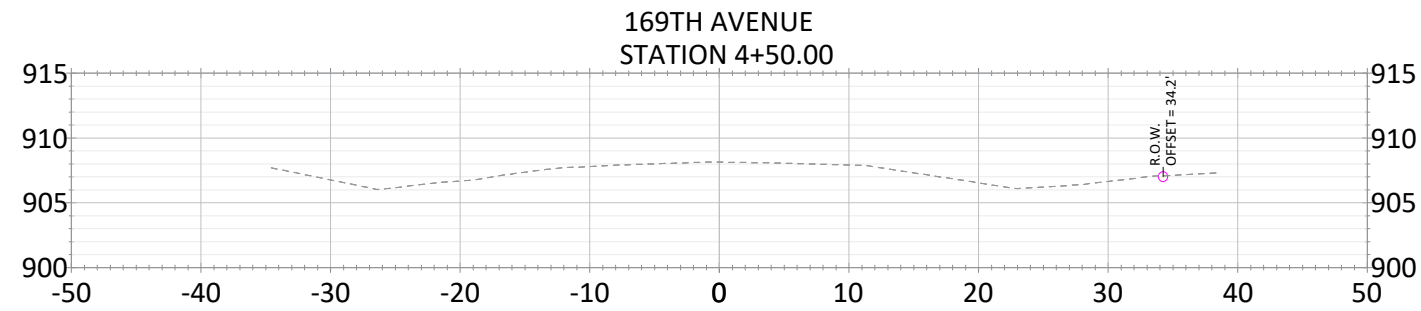
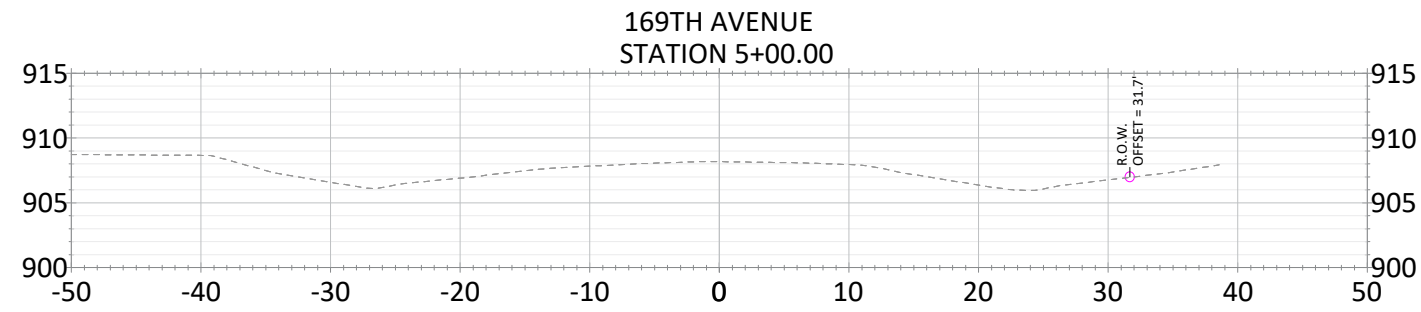
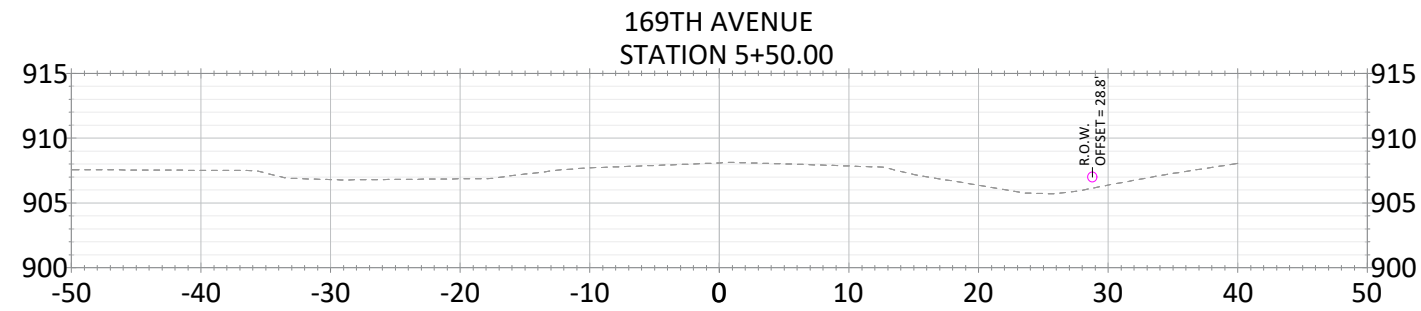
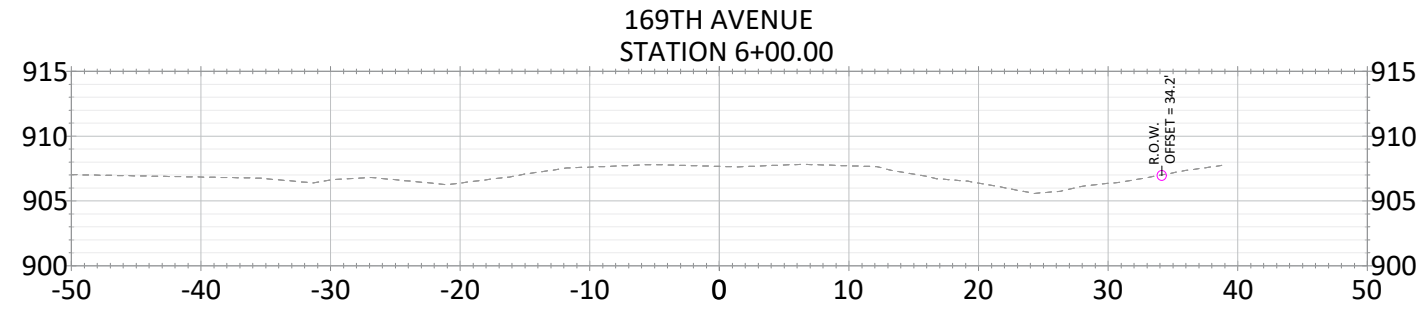
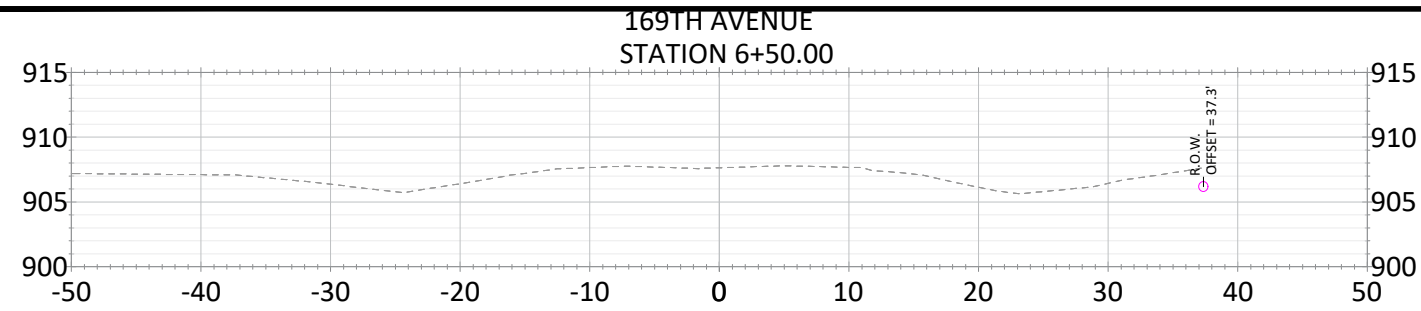
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
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CROSS SECTIONS
RABBIT 2+50 TO 4+50 &
169TH AVE WEST END

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



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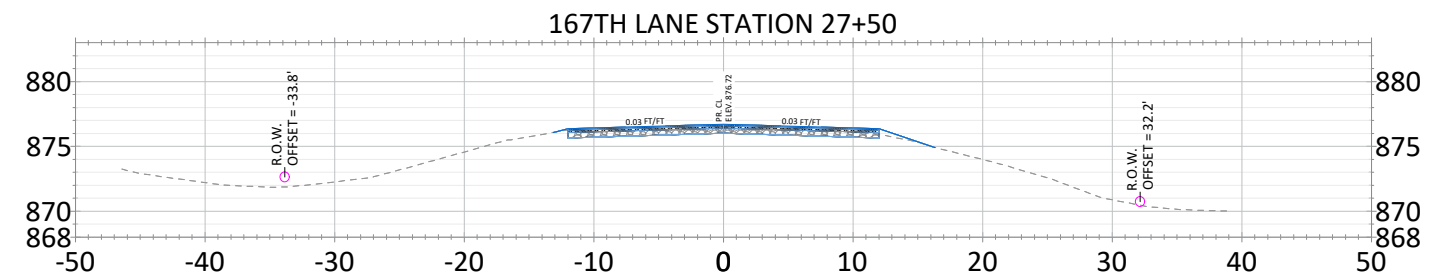
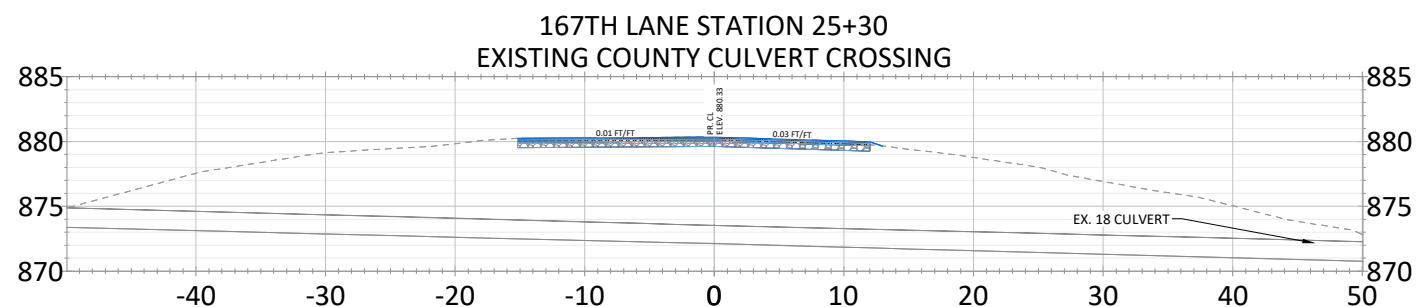
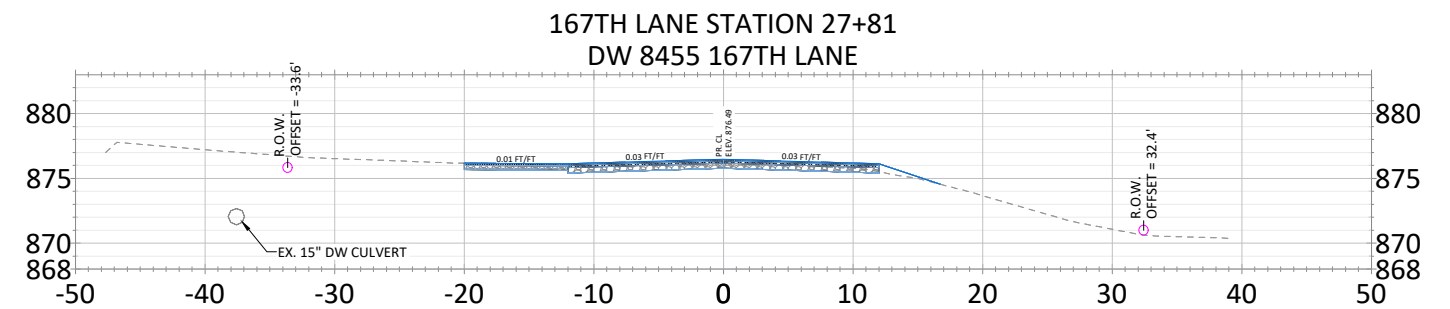
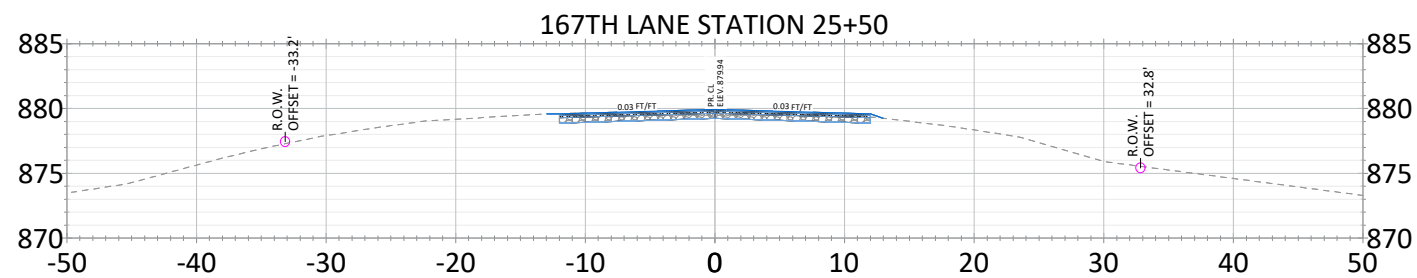
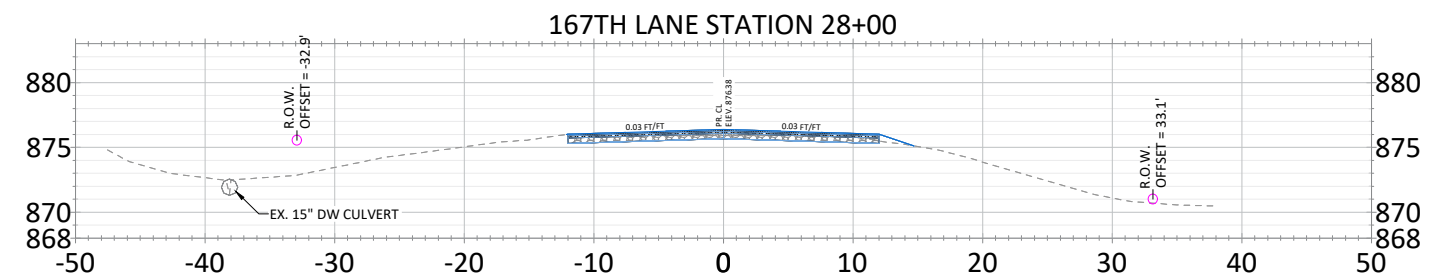
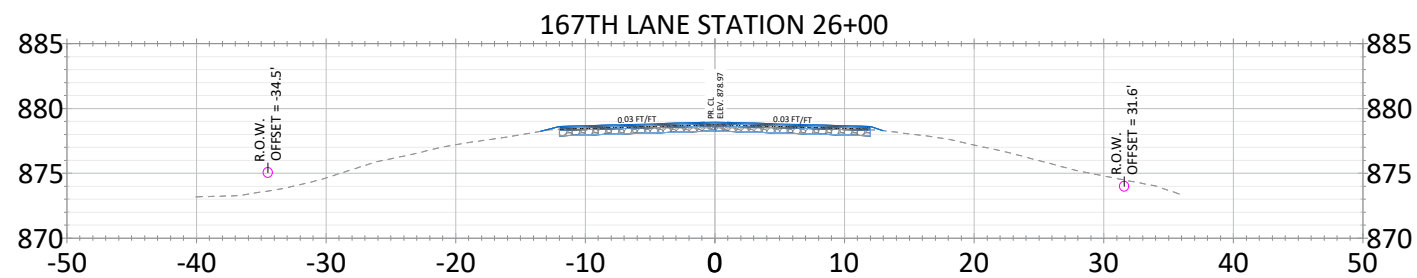
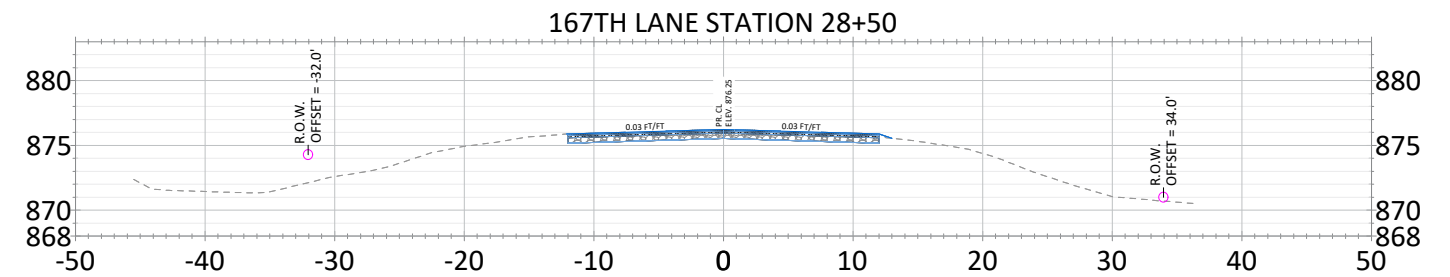
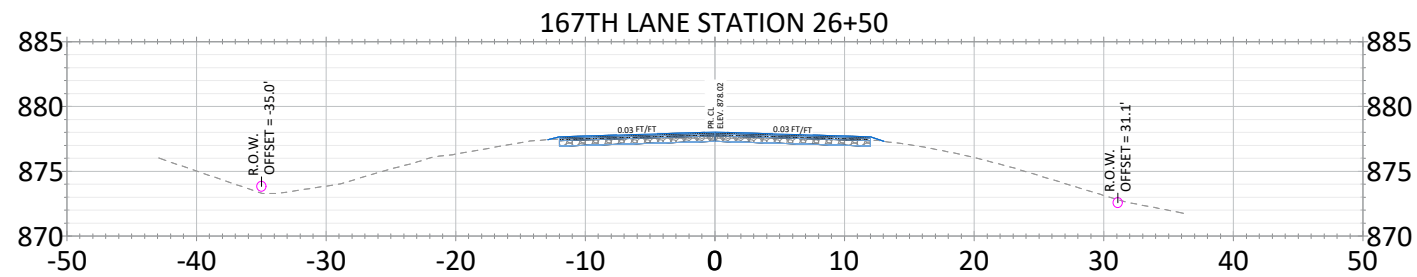
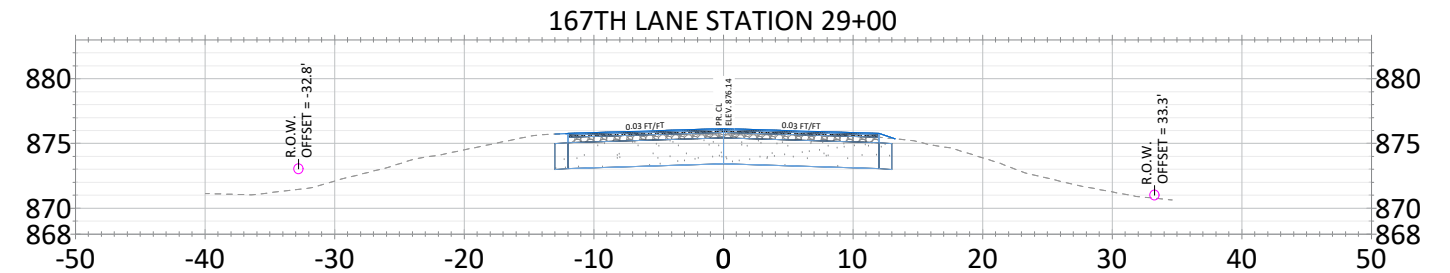
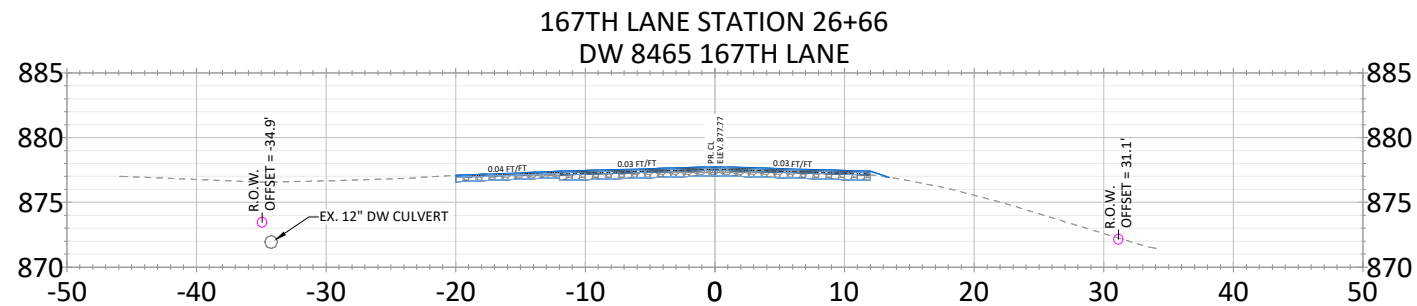
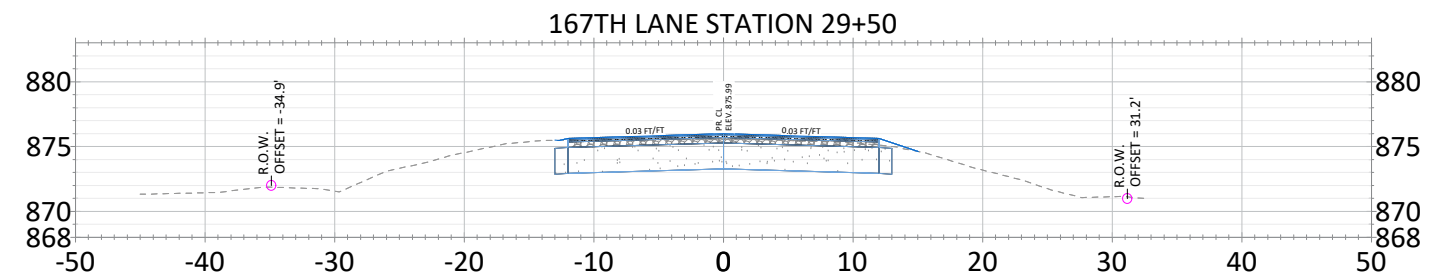
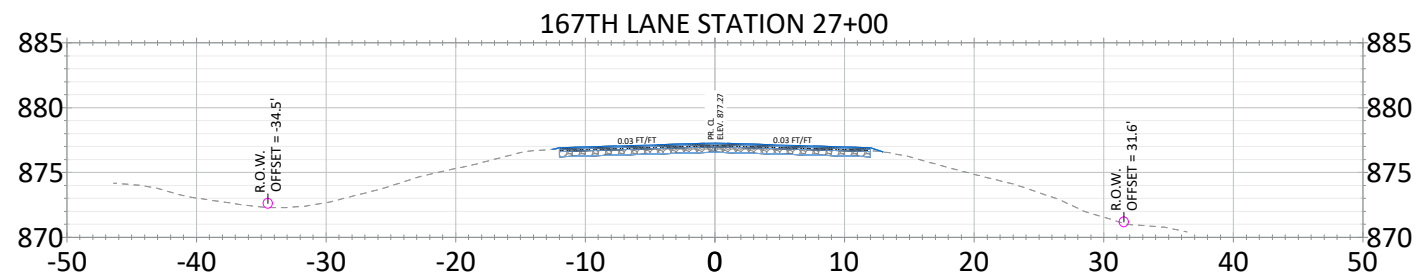
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CITY OF RAMSEY
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RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
169TH AVE 4+00 TO 7+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



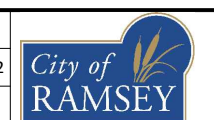
DATE	REVISION

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JOE FERIANCEK
Date: 6/28/22 Lic. No. 57095

DESIGNED BY: JJF
DRAWN BY: JJF
CHECKED BY: JJF

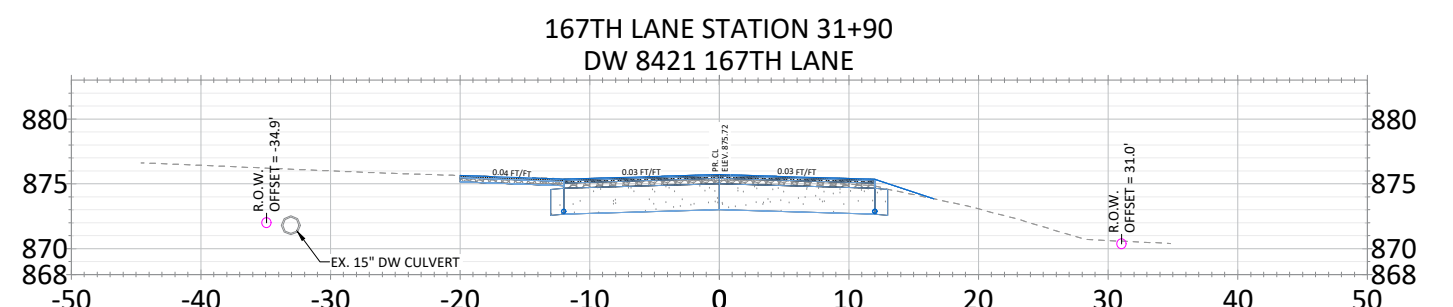
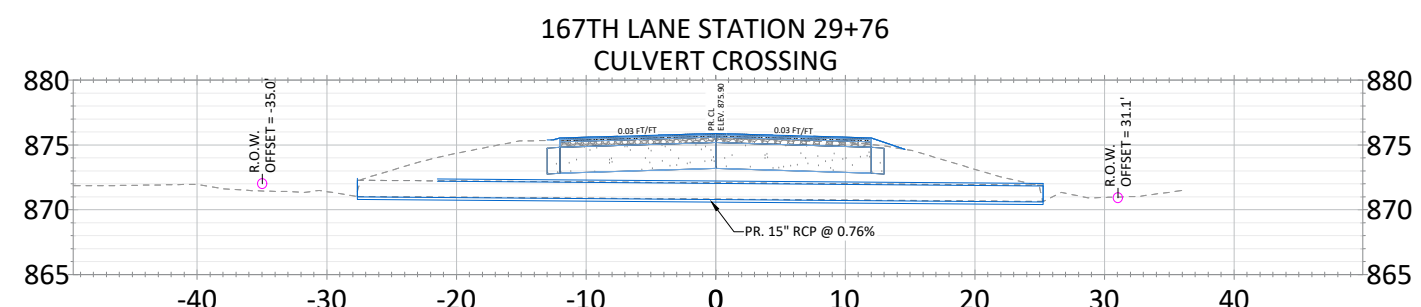
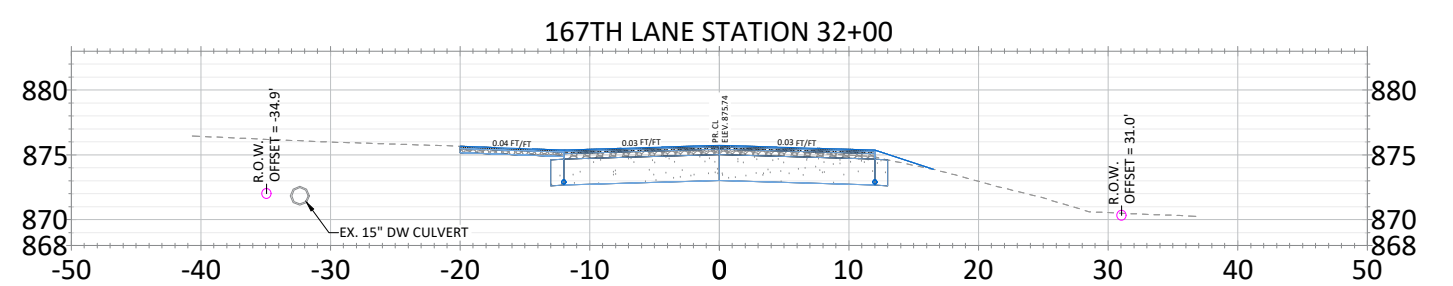
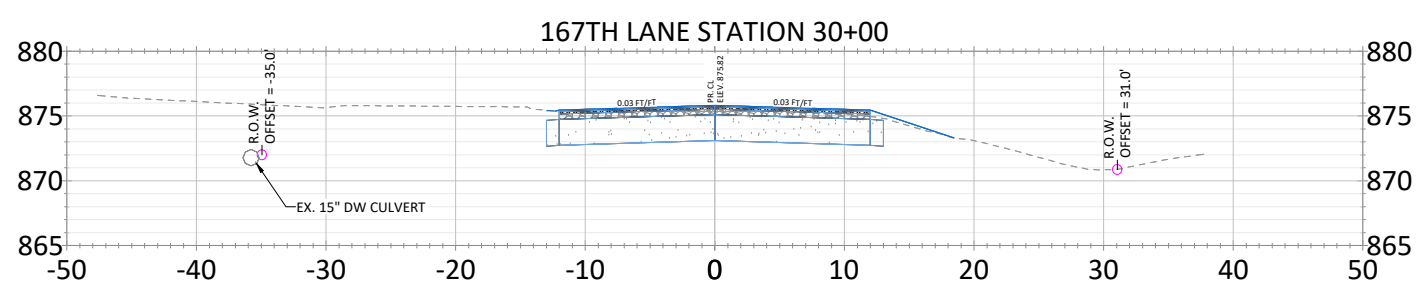
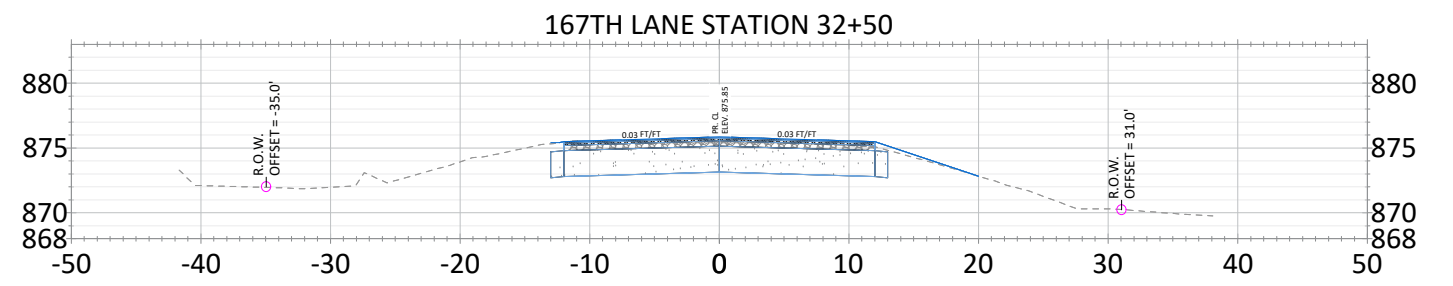
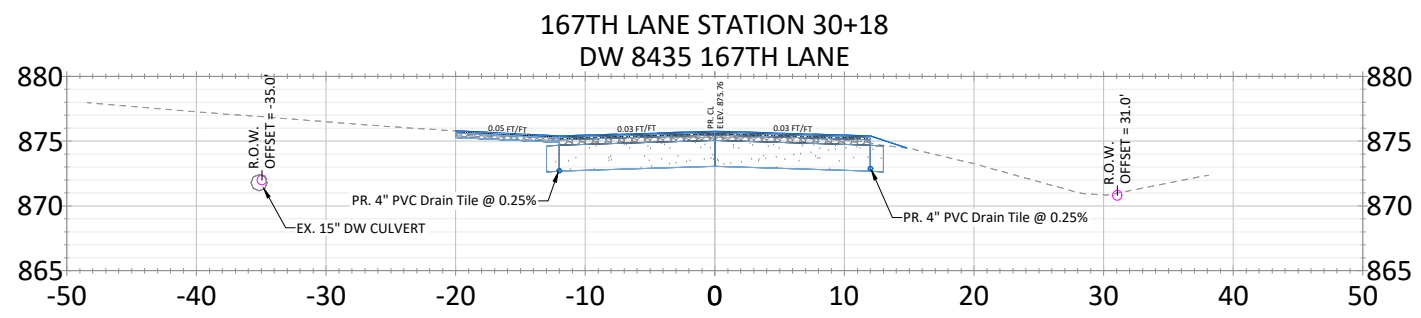
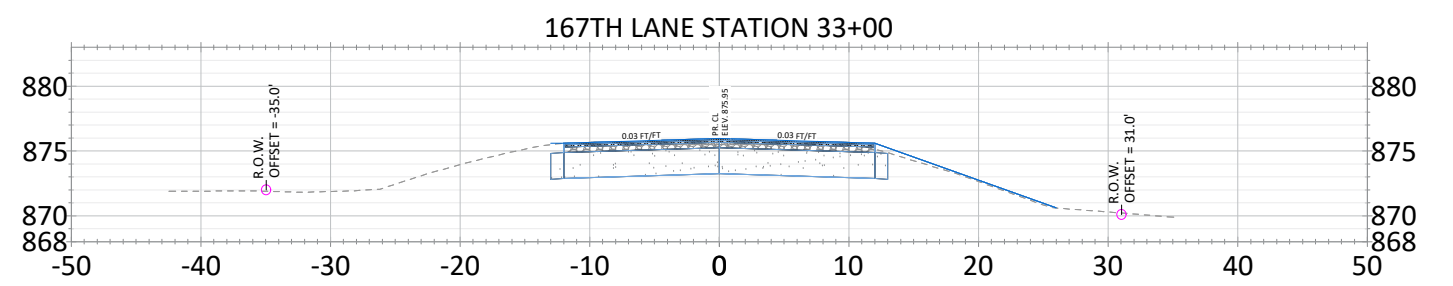
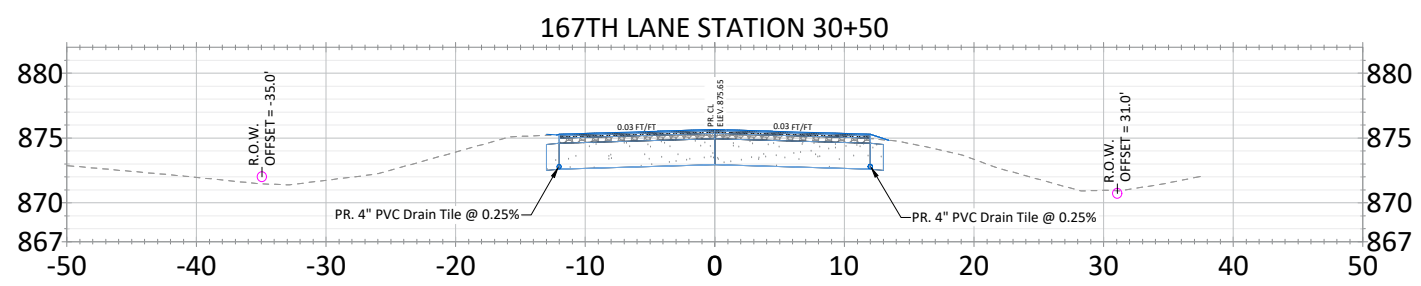
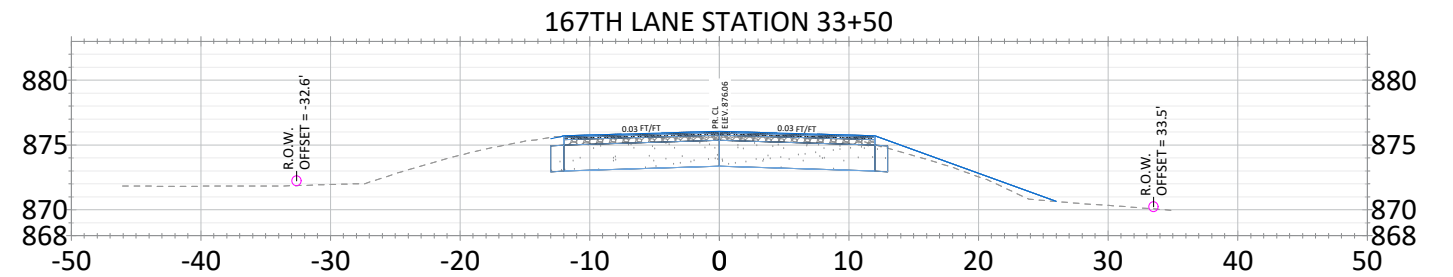
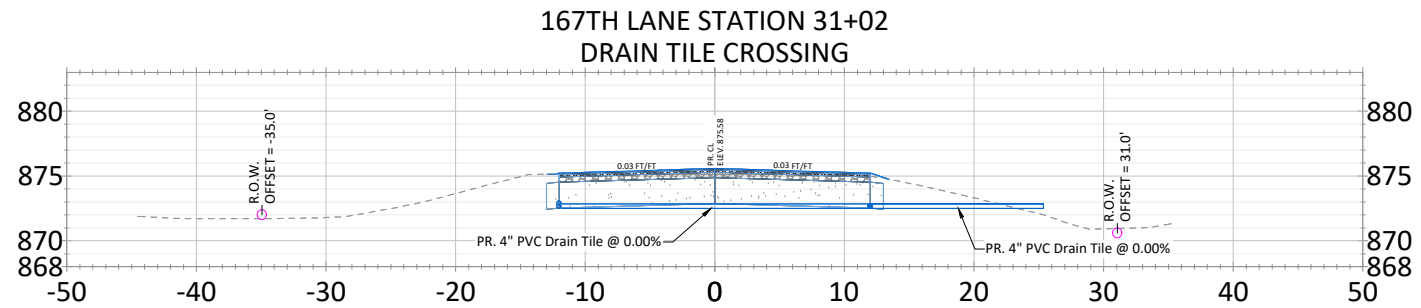
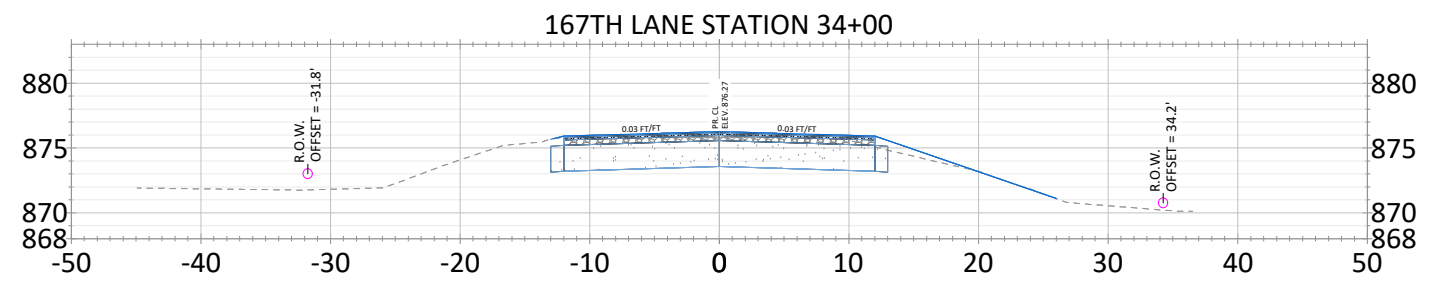
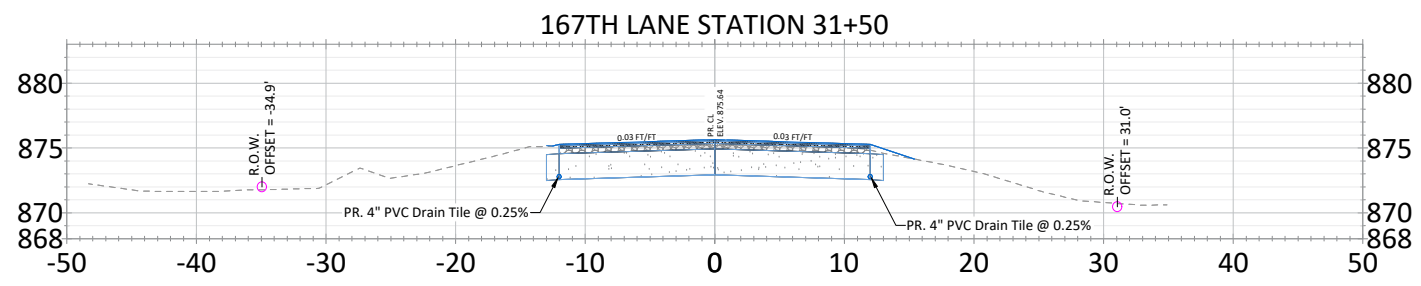
DATE: 6/28/22
FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
167TH LN 25+30 TO 29+50

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



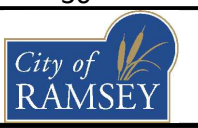
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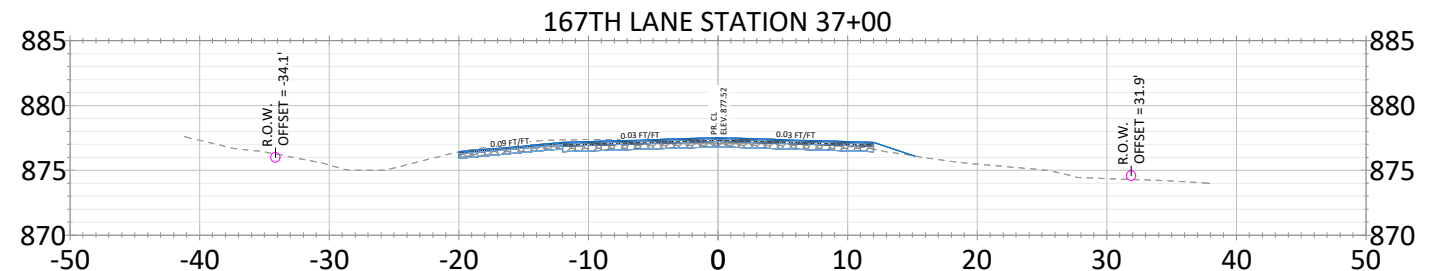
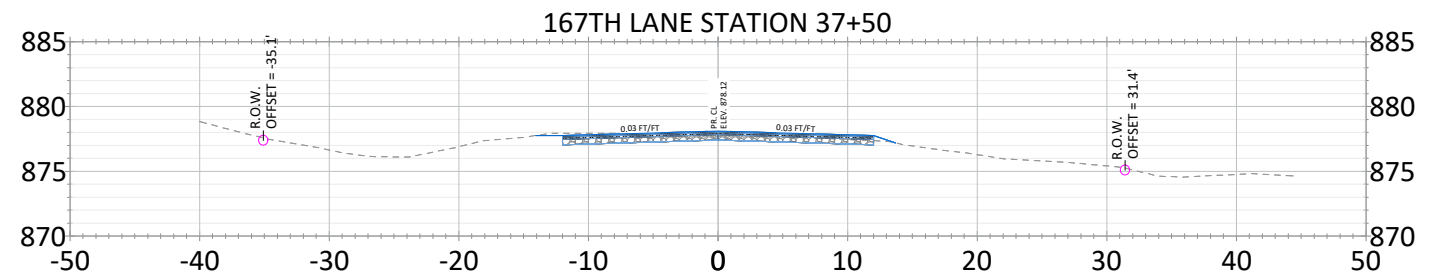
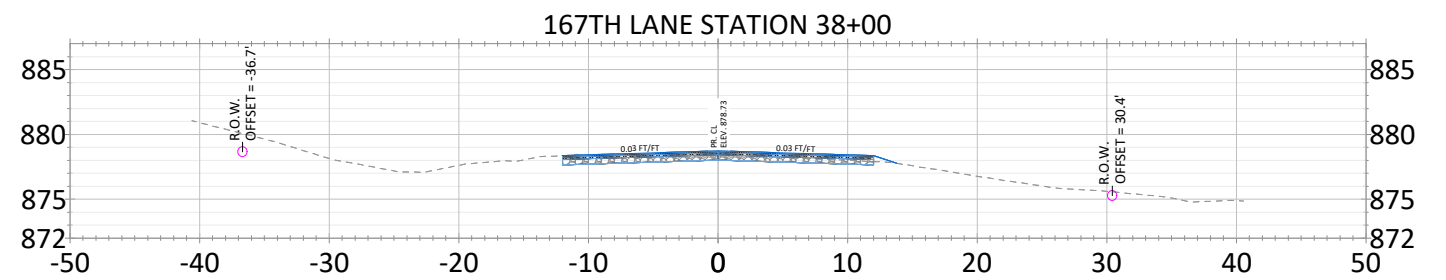
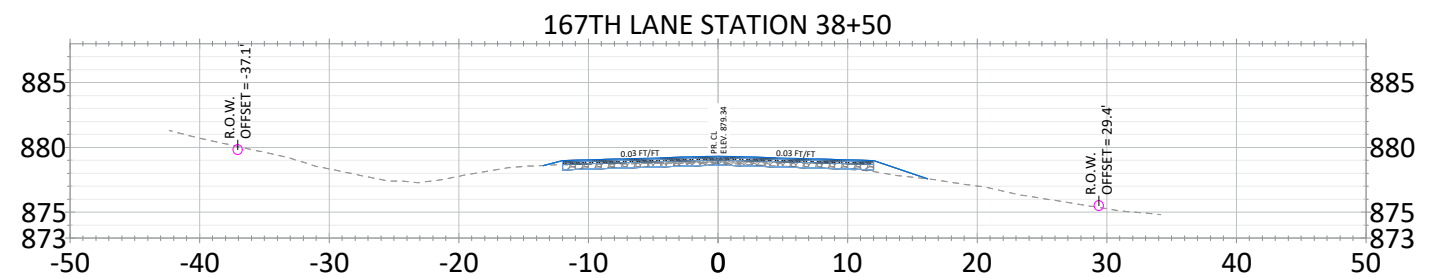
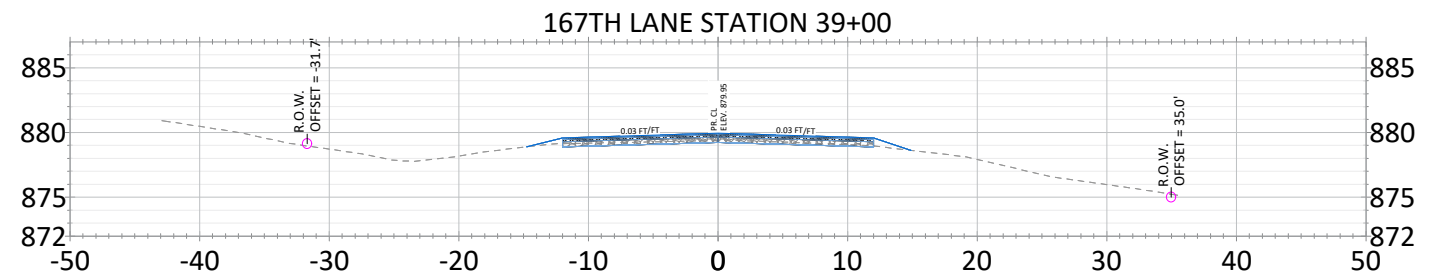
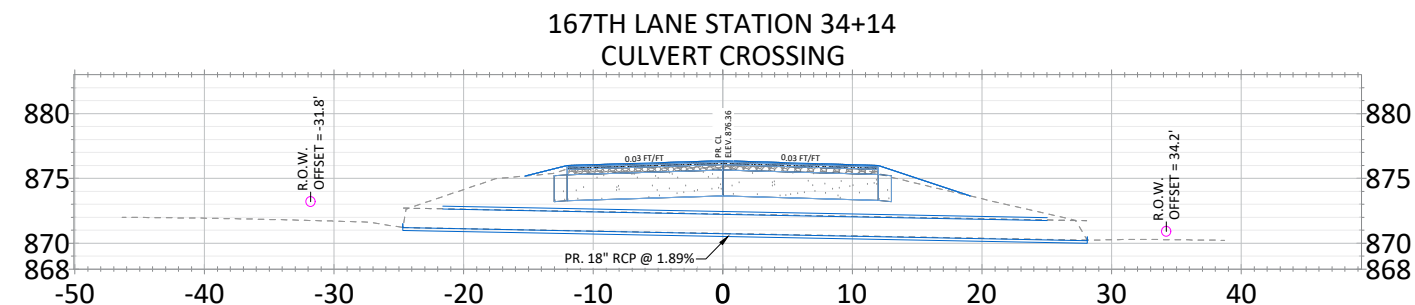
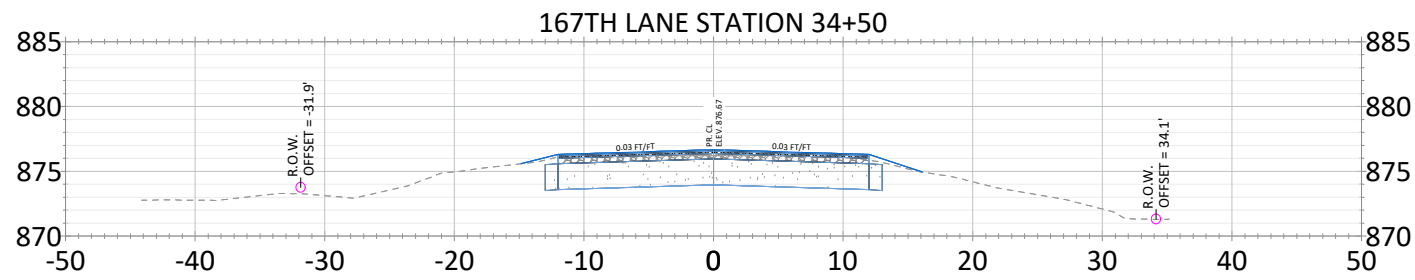
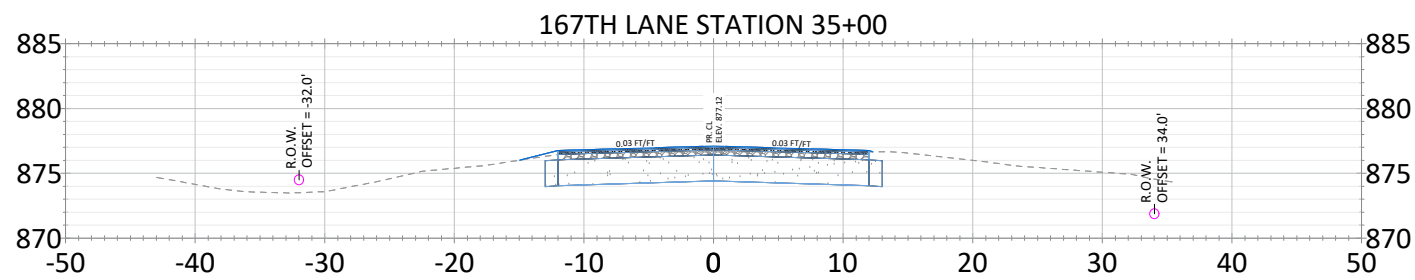
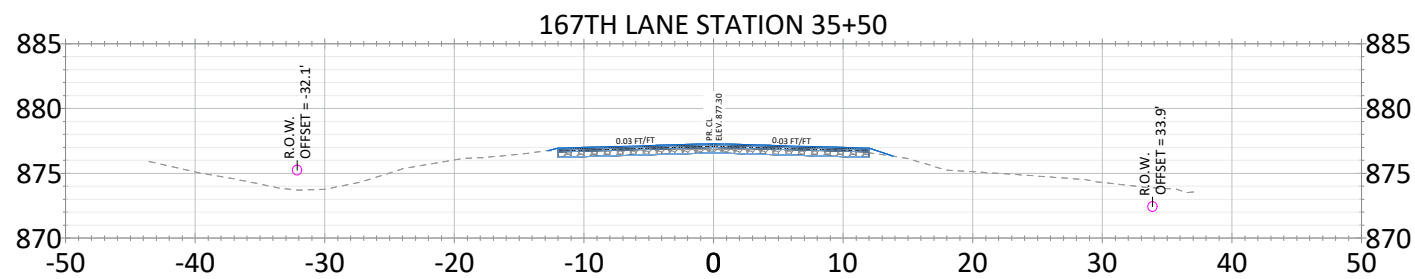
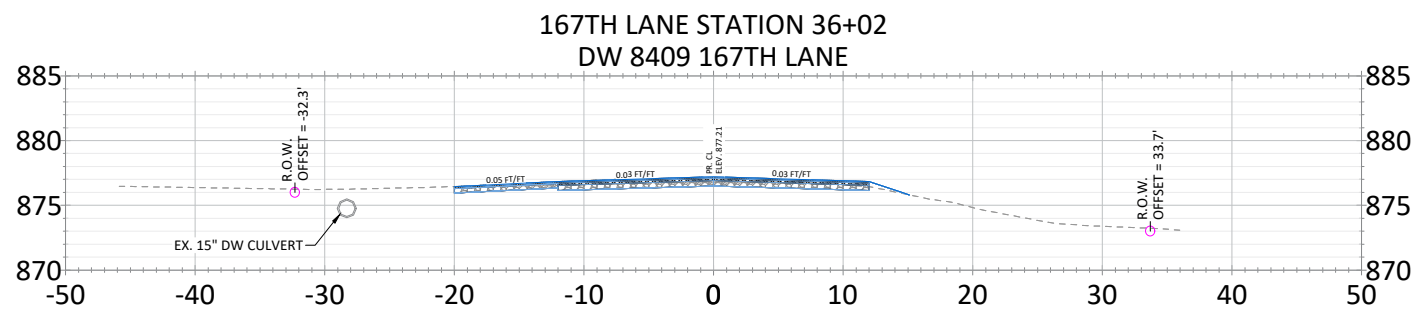
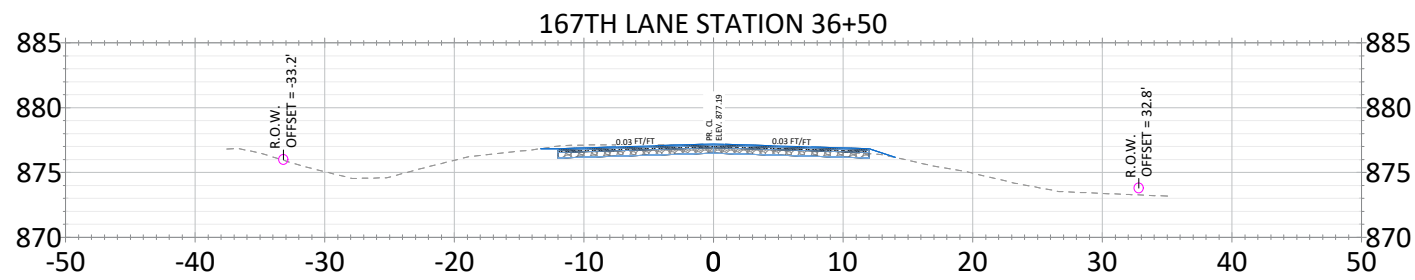
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CROSS SECTIONS
167TH LN 29+76 TO 34+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
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CITY OF RAMSEY, MINNESOTA



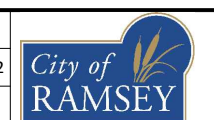
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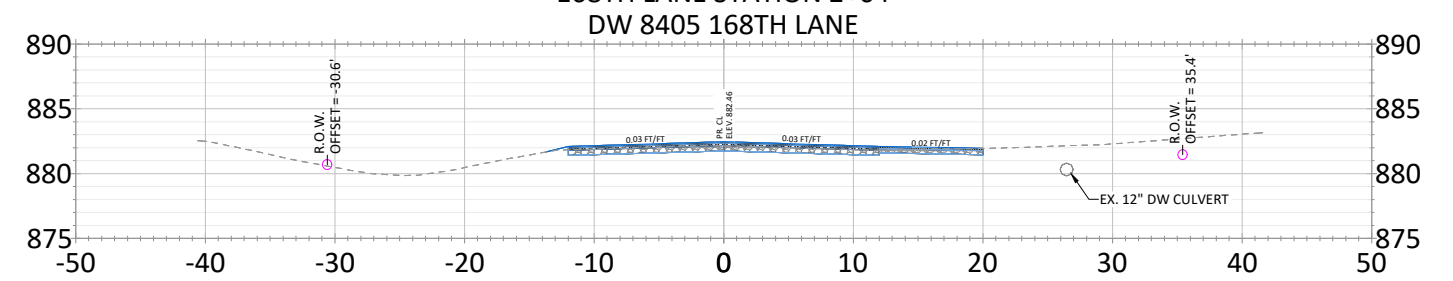
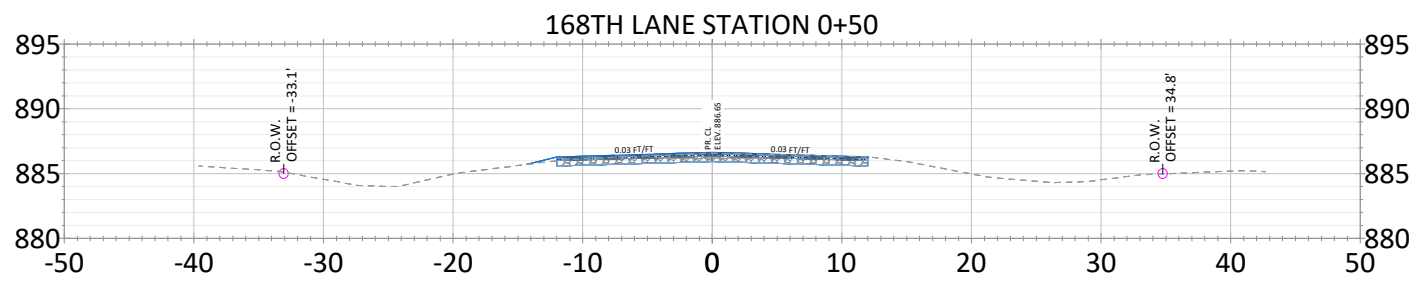
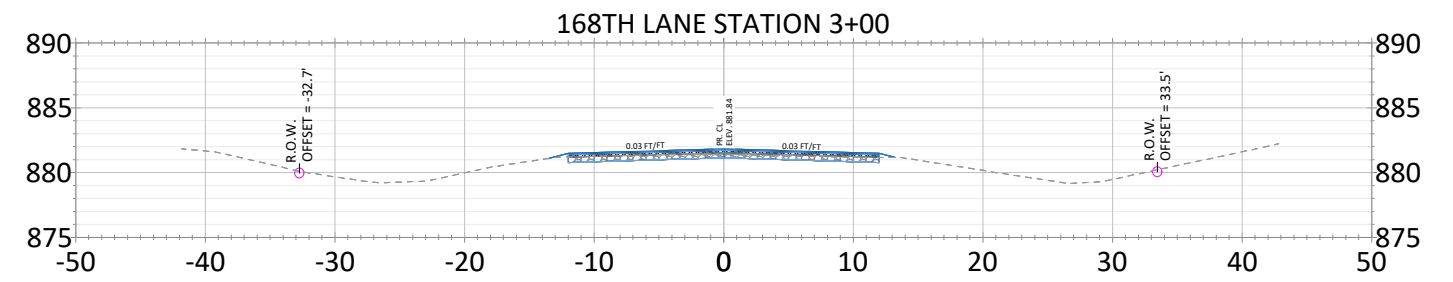
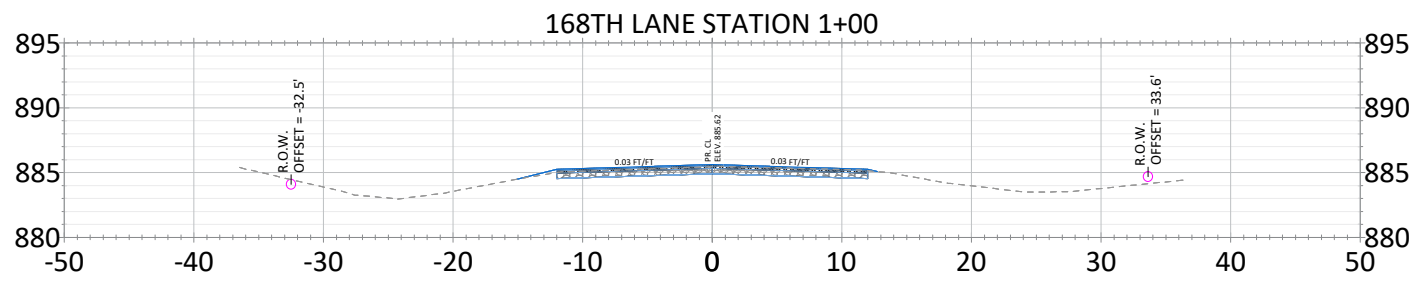
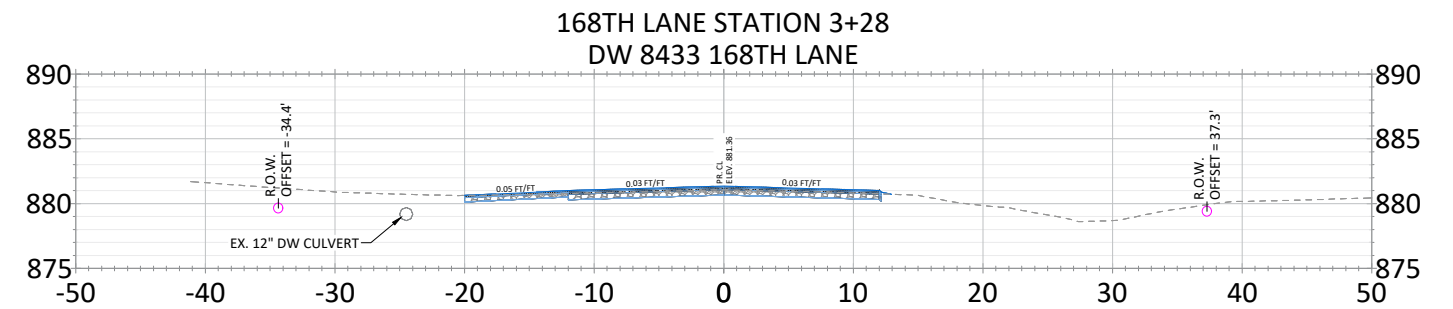
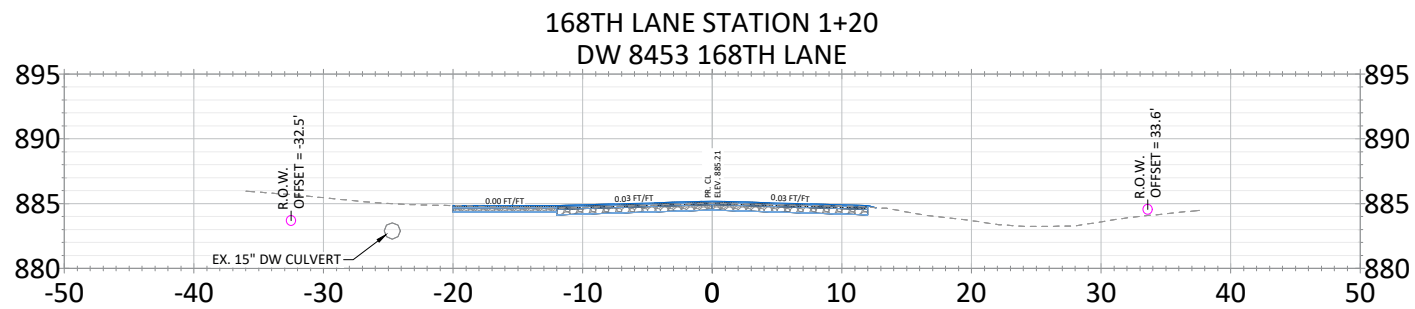
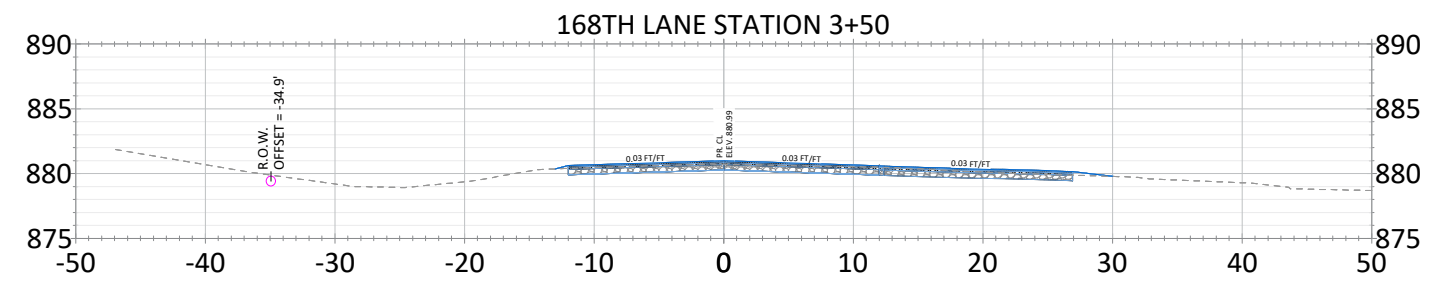
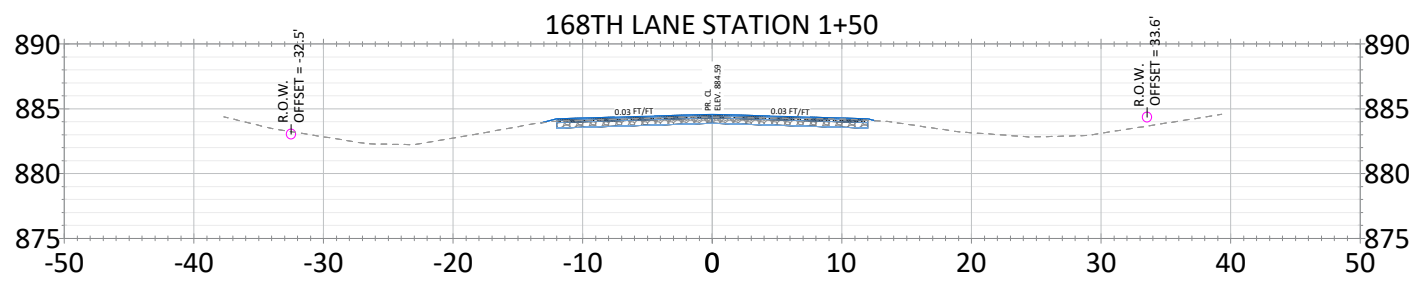
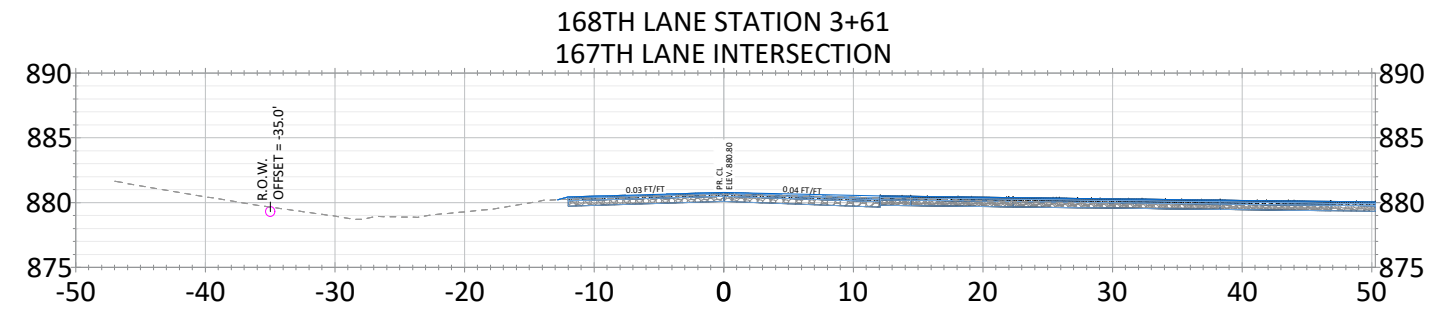
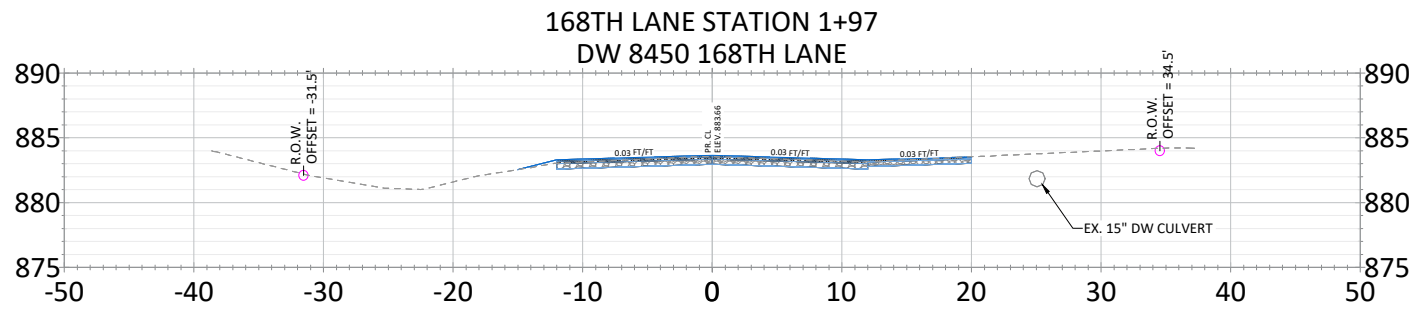
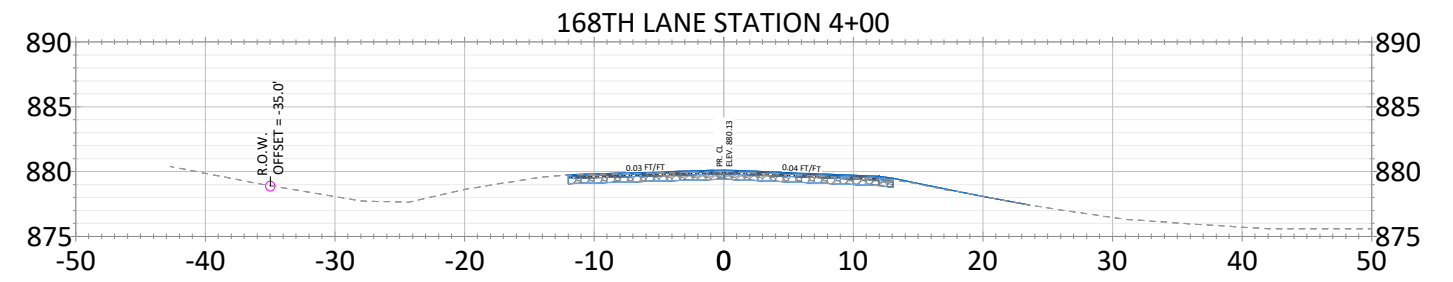
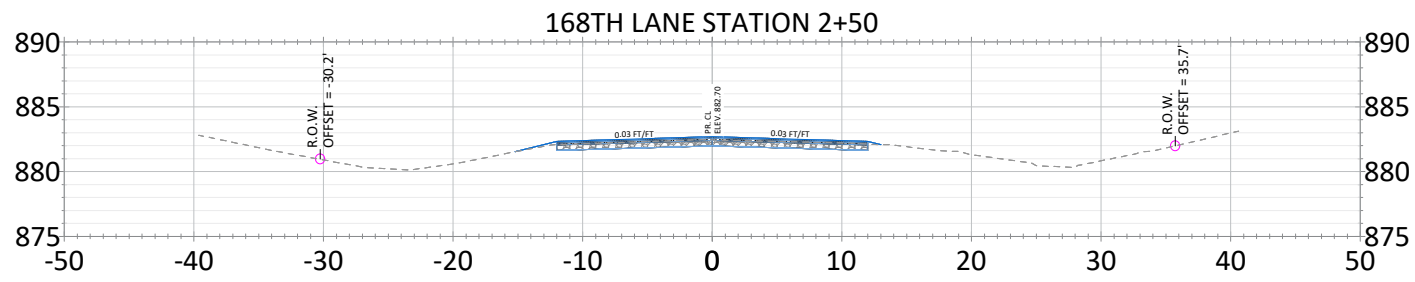
DATE: 6/28/22
FILE: 22-02



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(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
167TH LN 34+14 TO 39+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



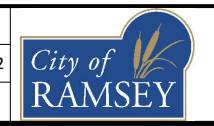
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Date: 6/28/22 Lic. No. 57095

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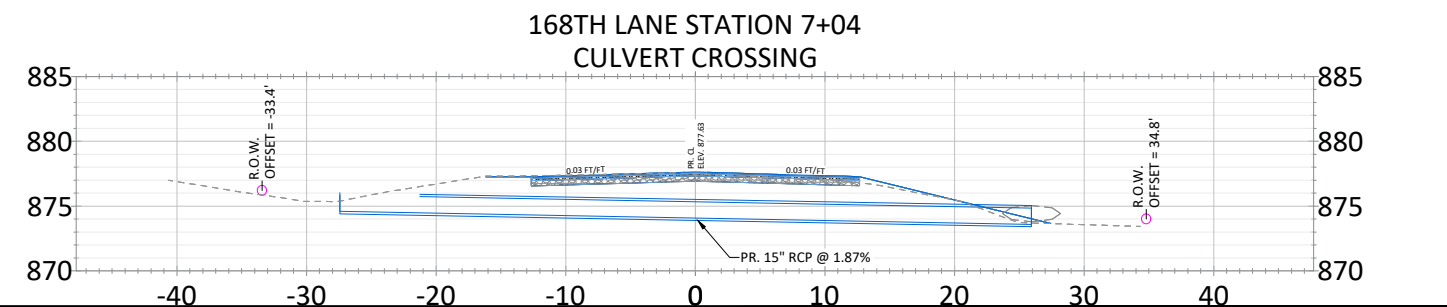
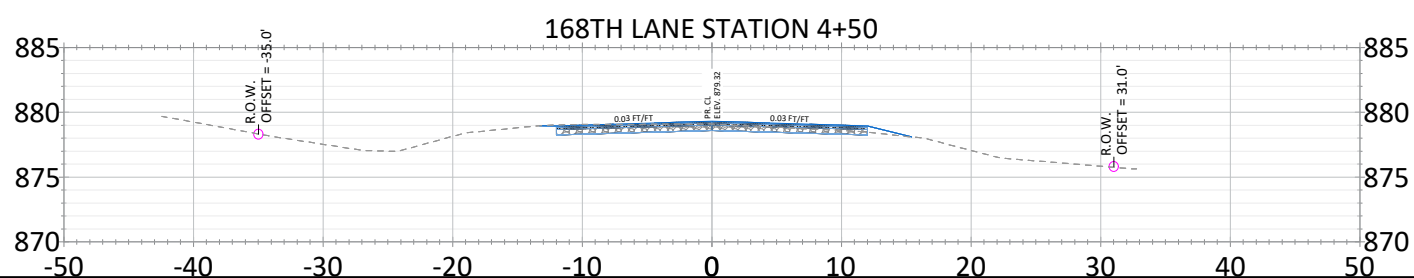
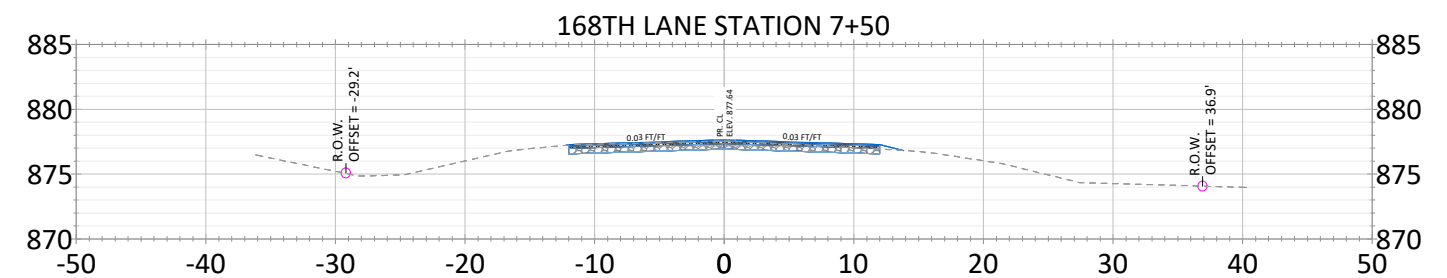
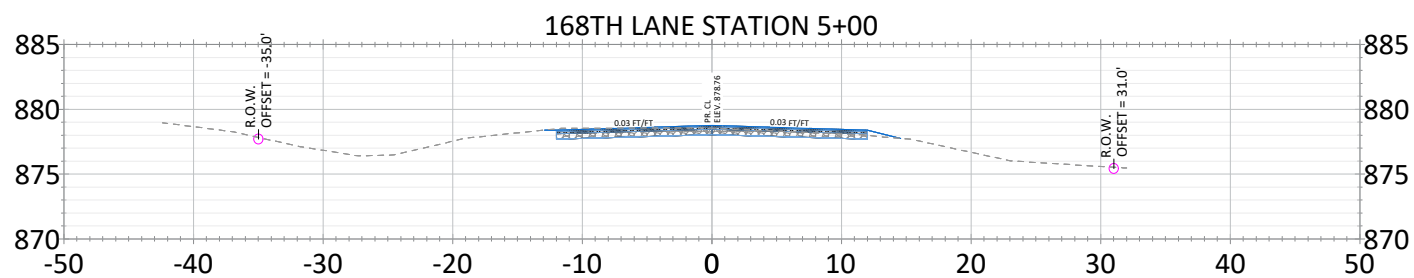
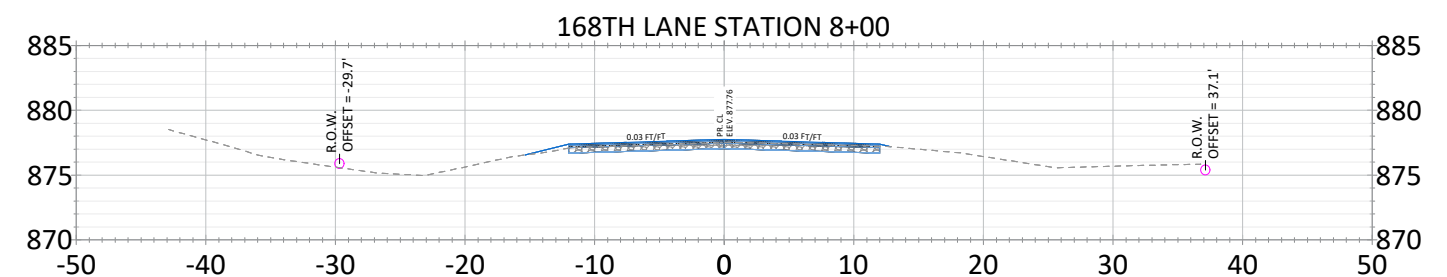
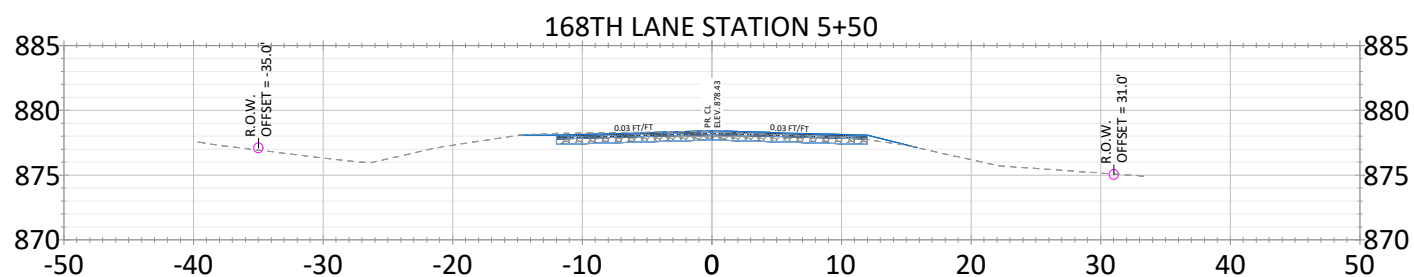
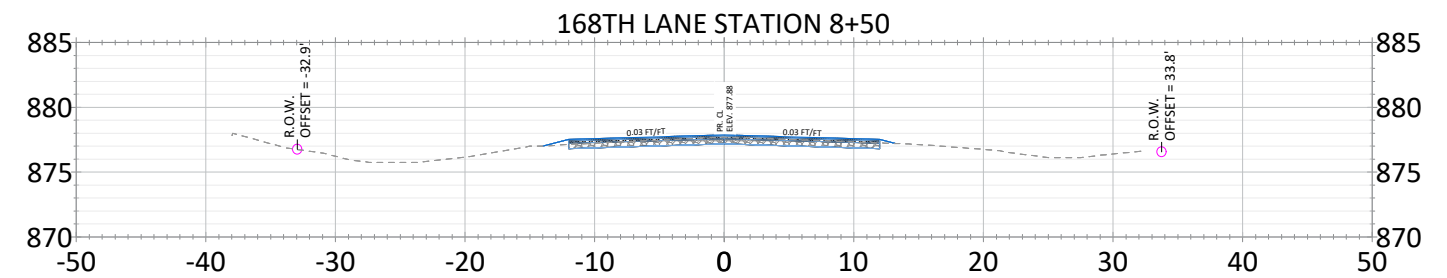
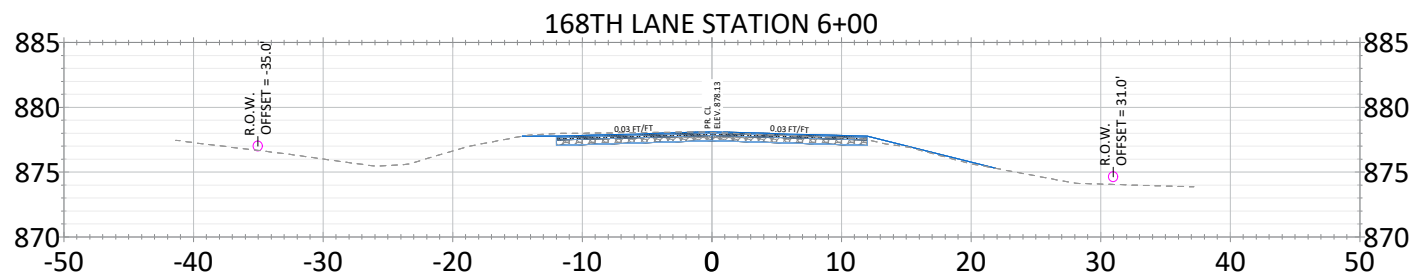
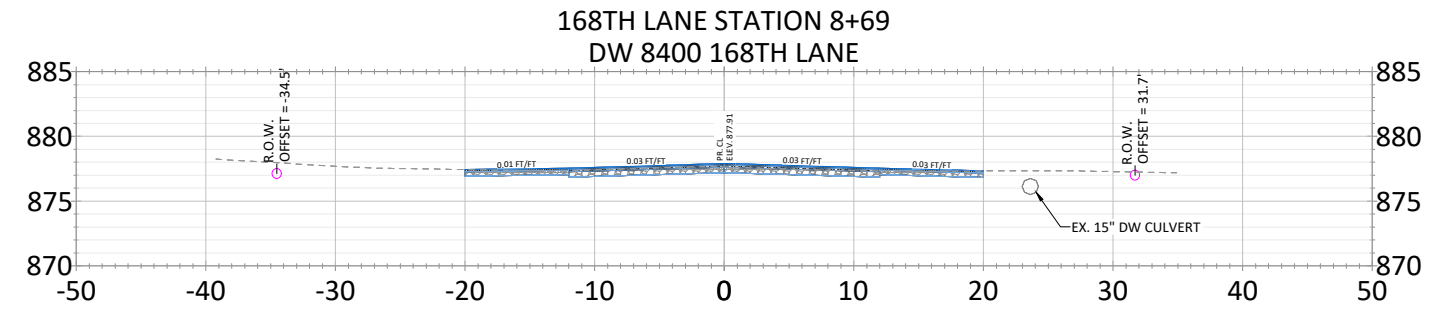
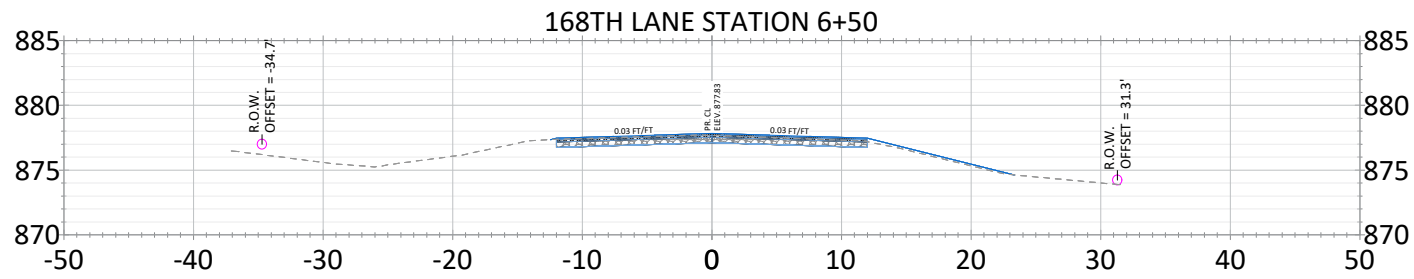
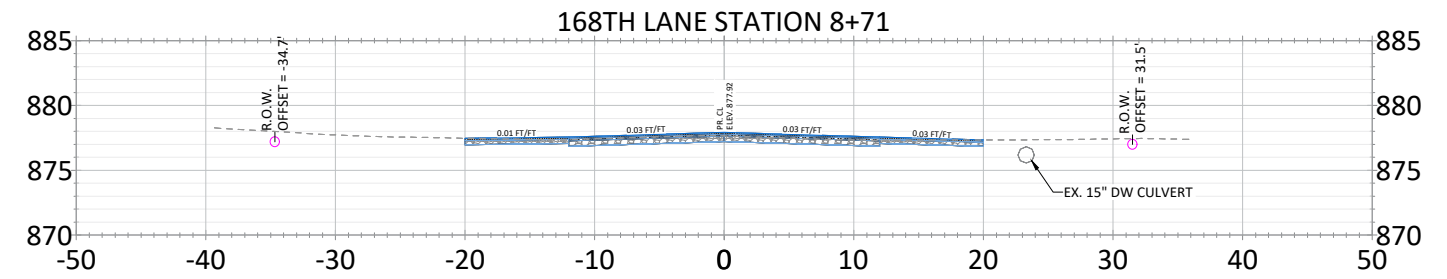
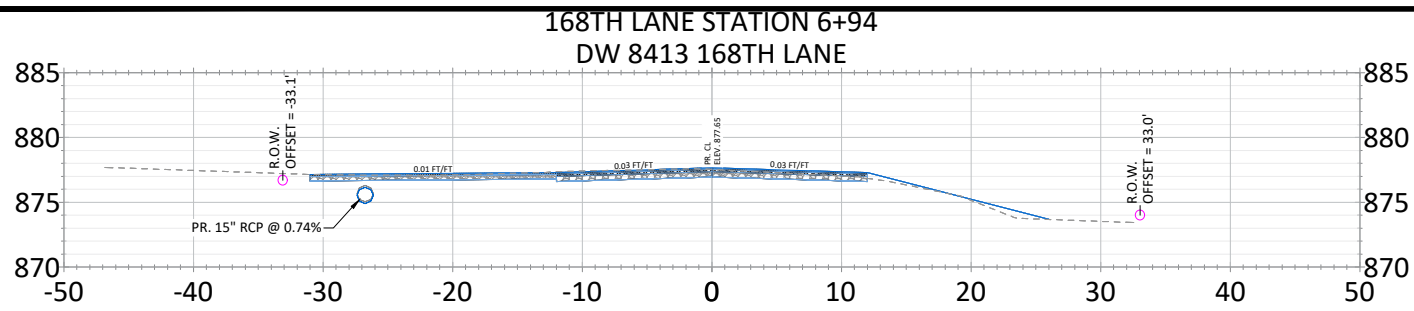
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CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
168TH LN 0+50 TO 4+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



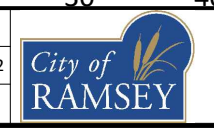
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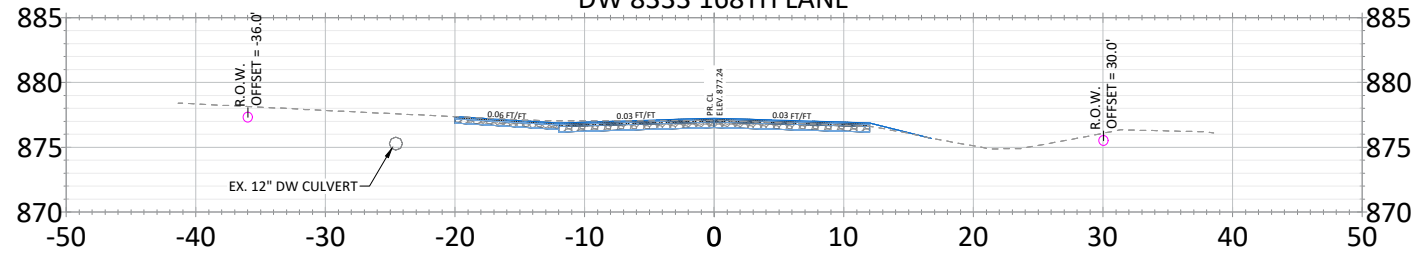


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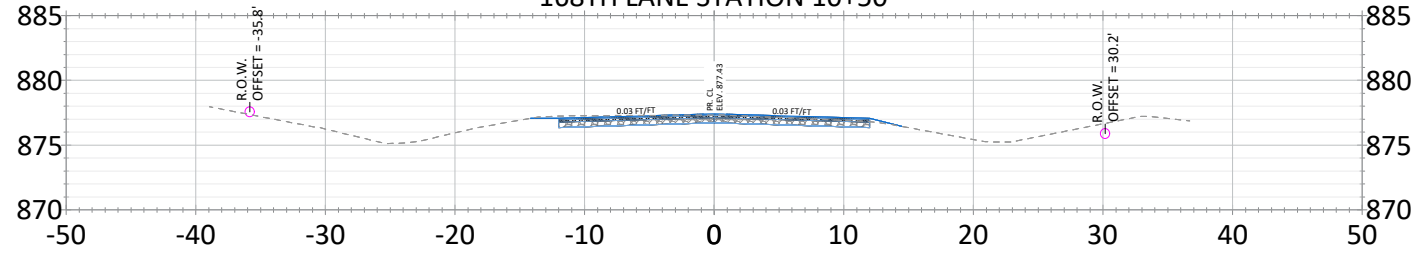
CROSS SECTIONS
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AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA

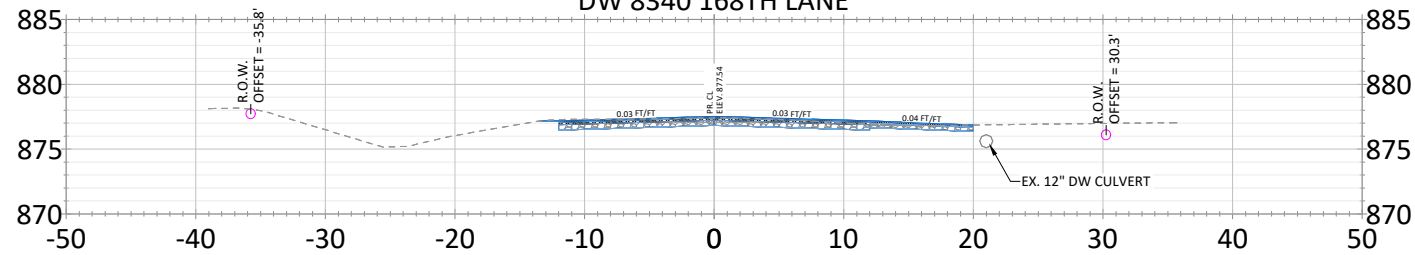
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DW 8333 168TH LANE



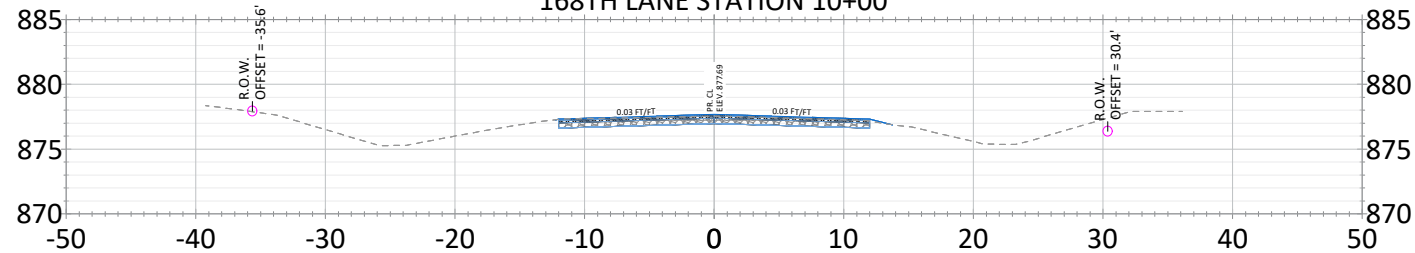
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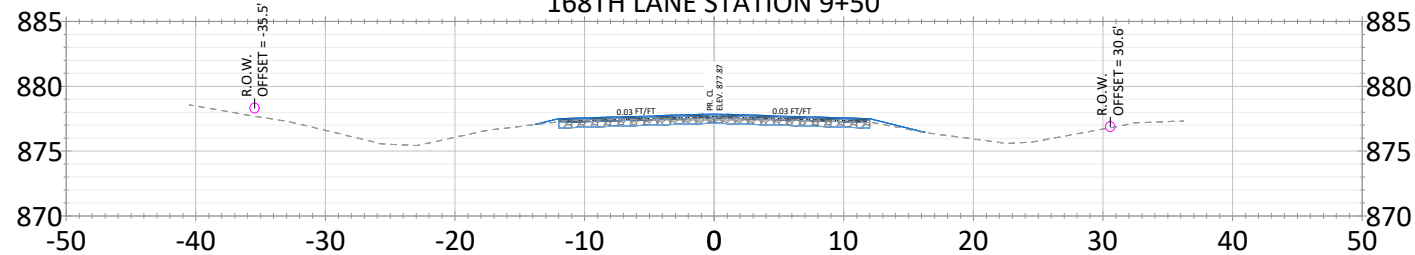
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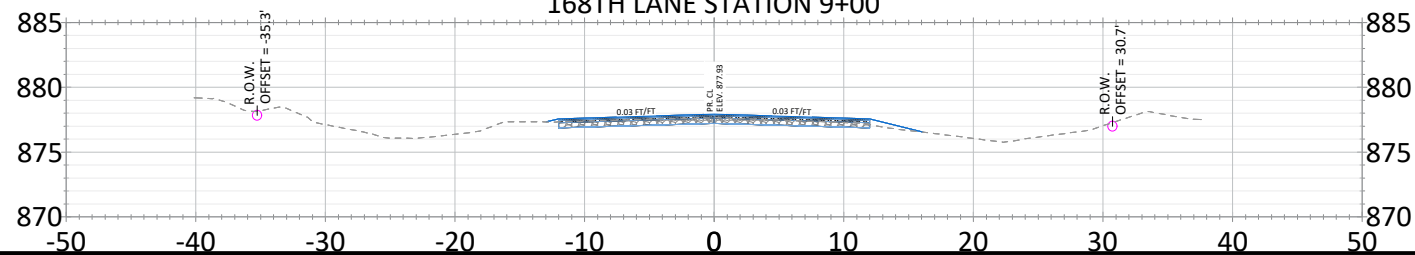
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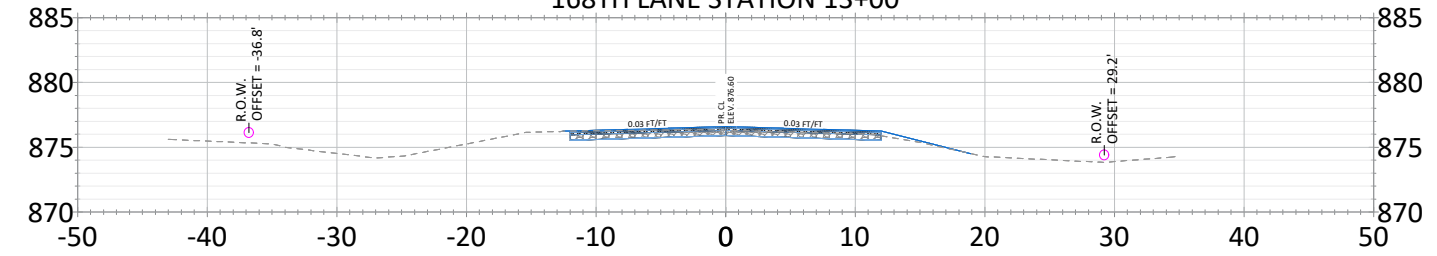
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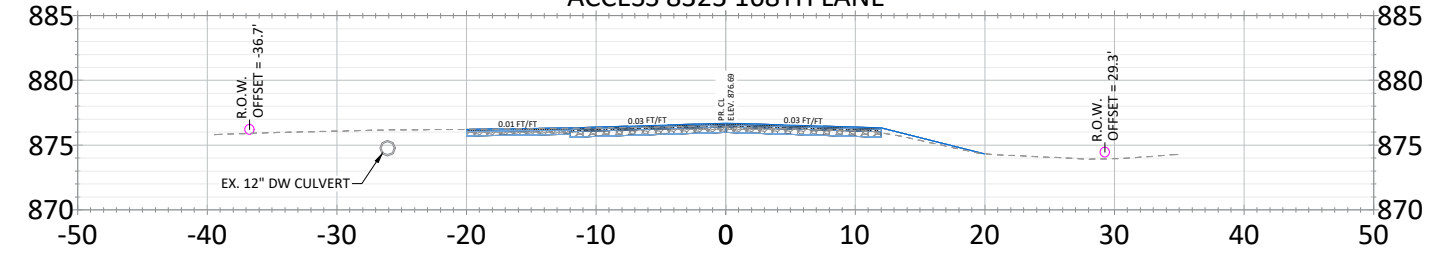
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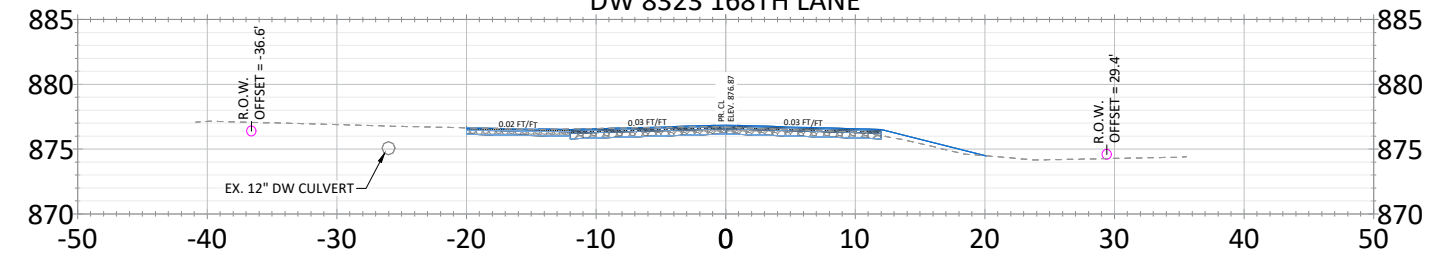
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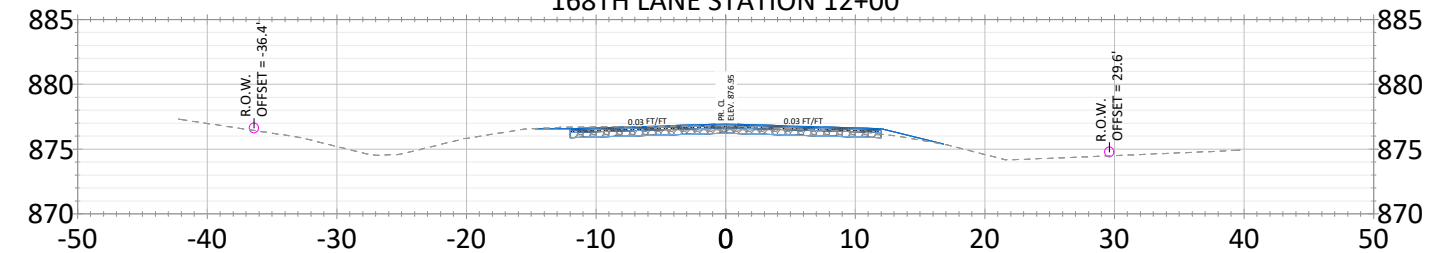
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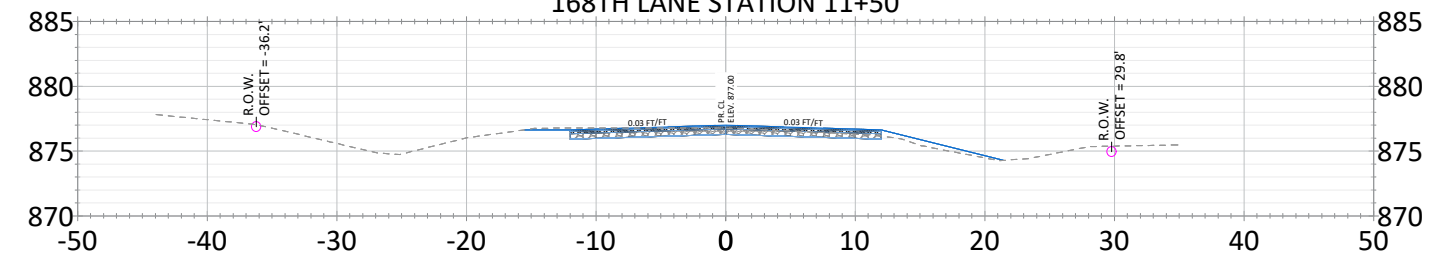
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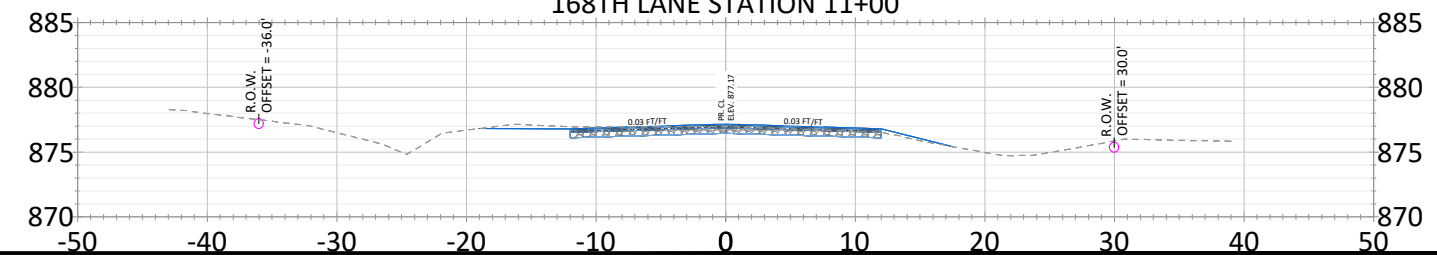
168TH LANE STATION 12+00



168TH LANE STATION 11+50



168TH LANE STATION 11+00



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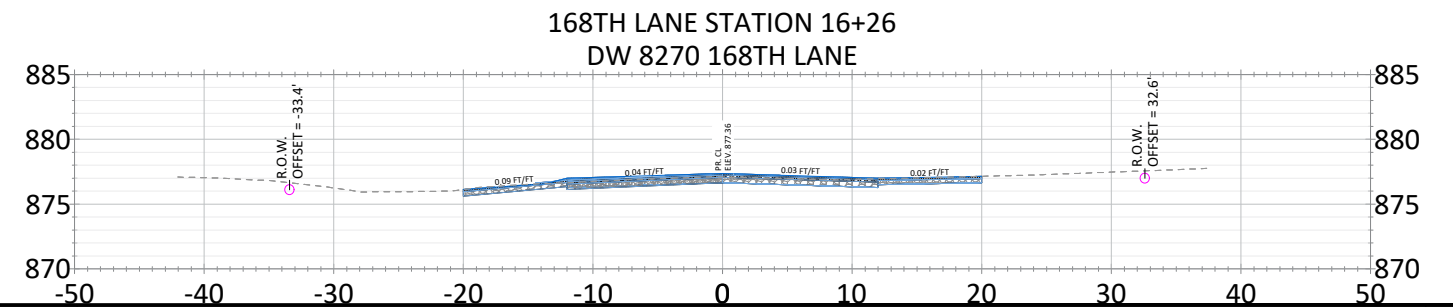
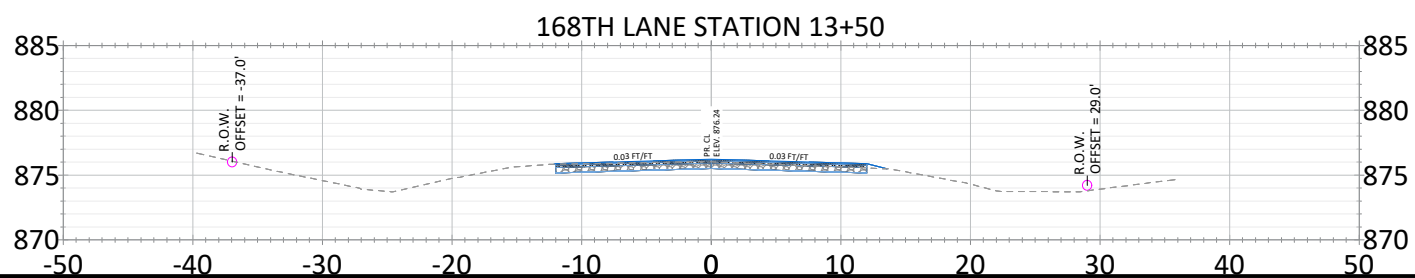
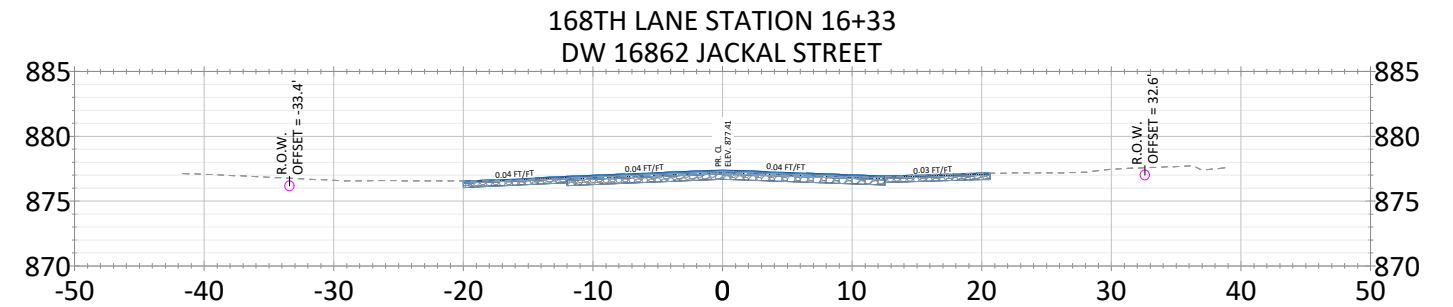
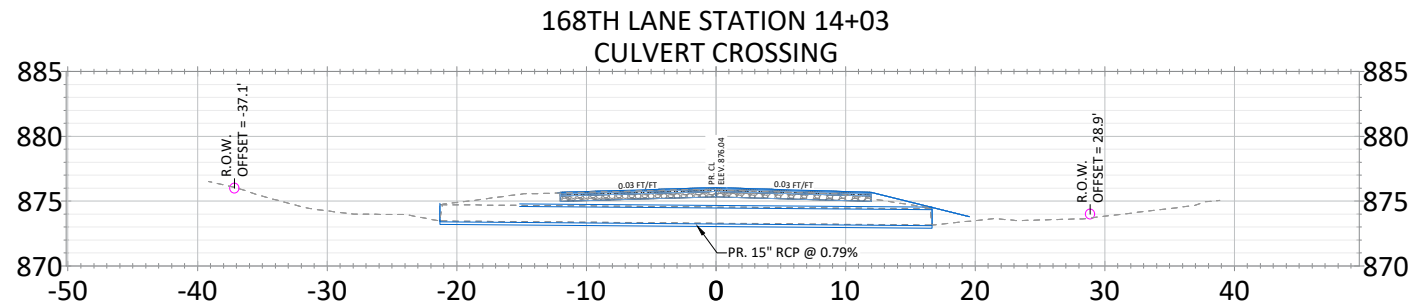
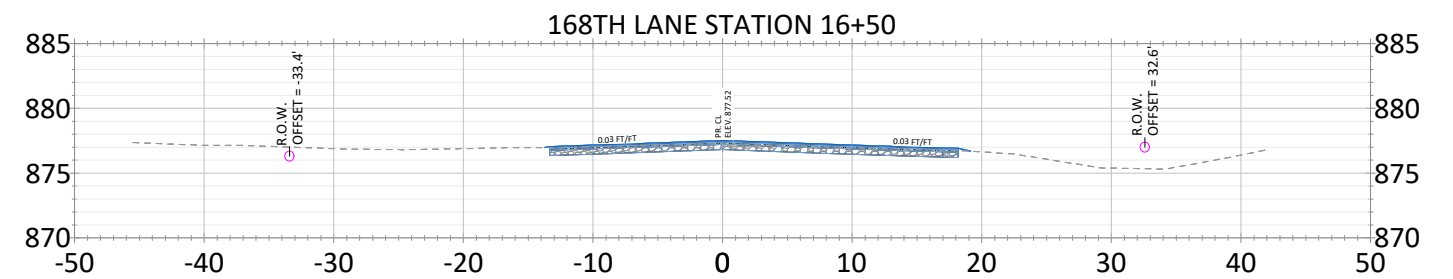
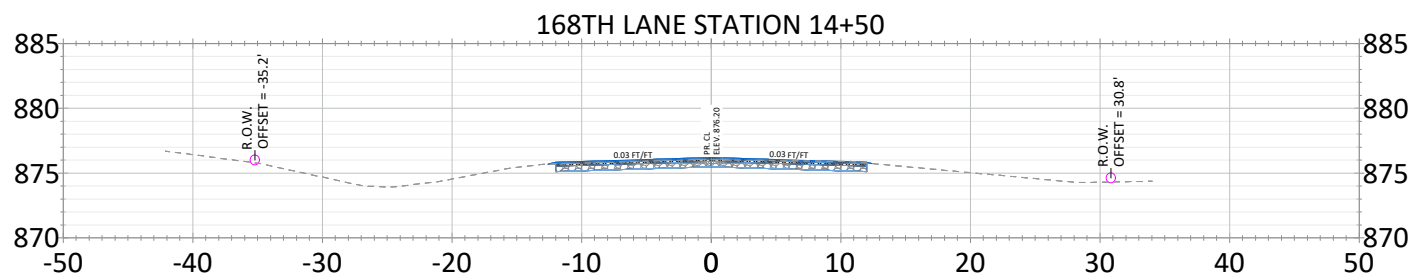
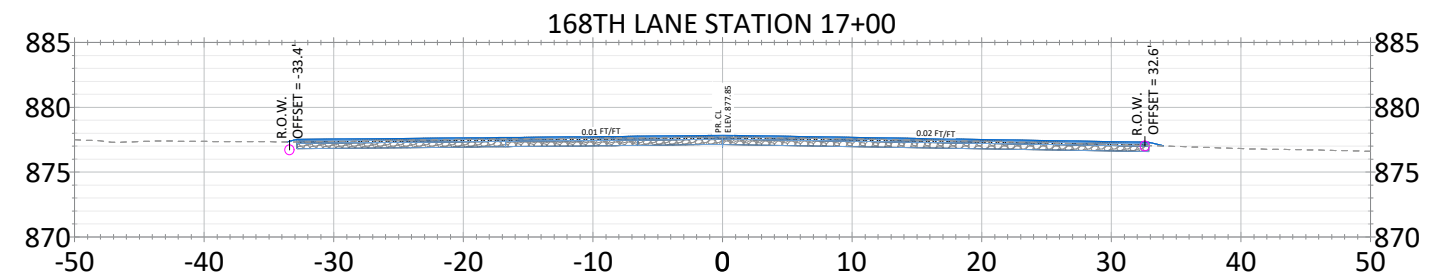
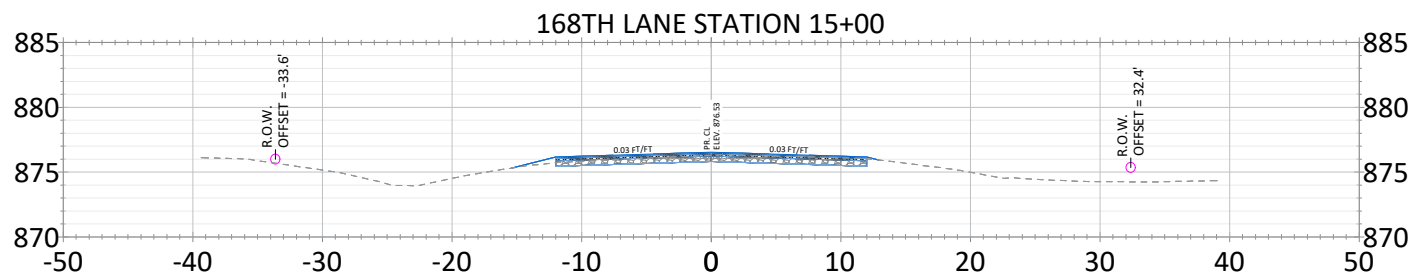
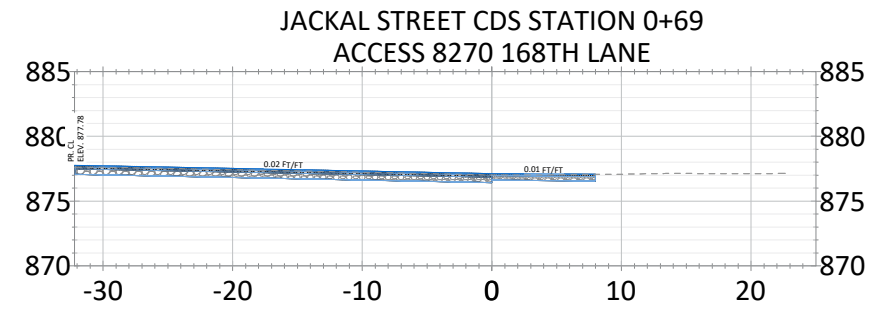
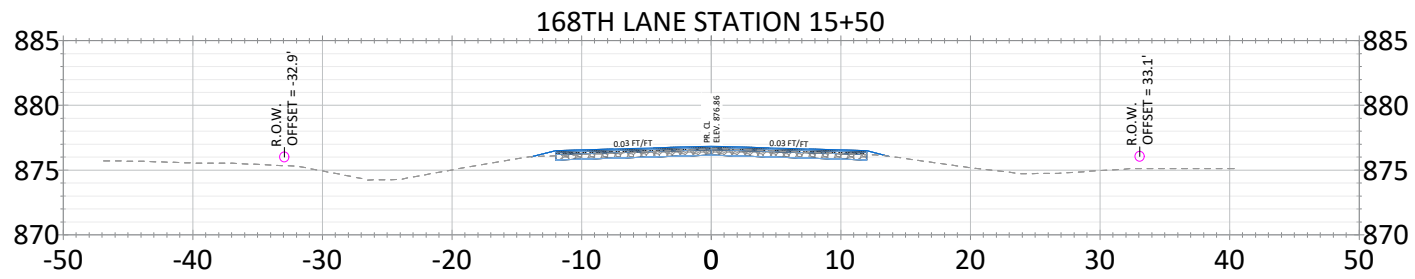
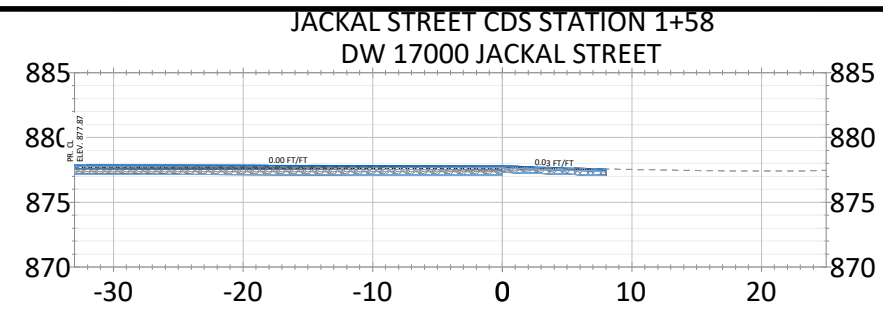
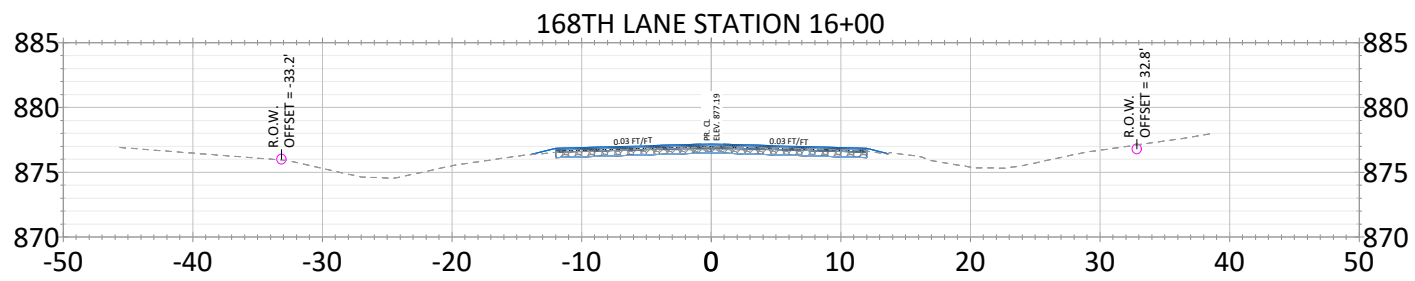
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CROSS SECTIONS
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CHECKED BY: JJF

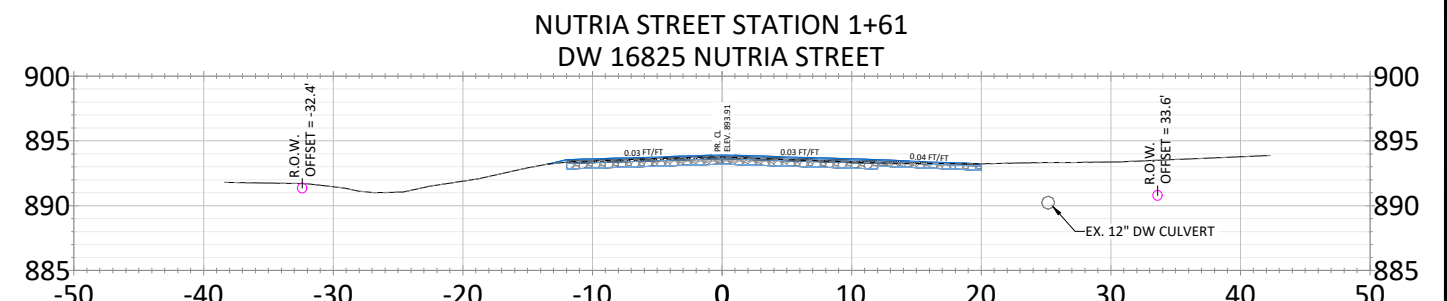
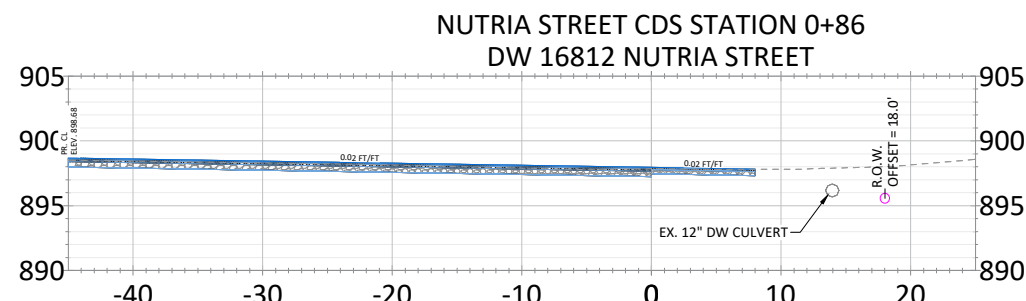
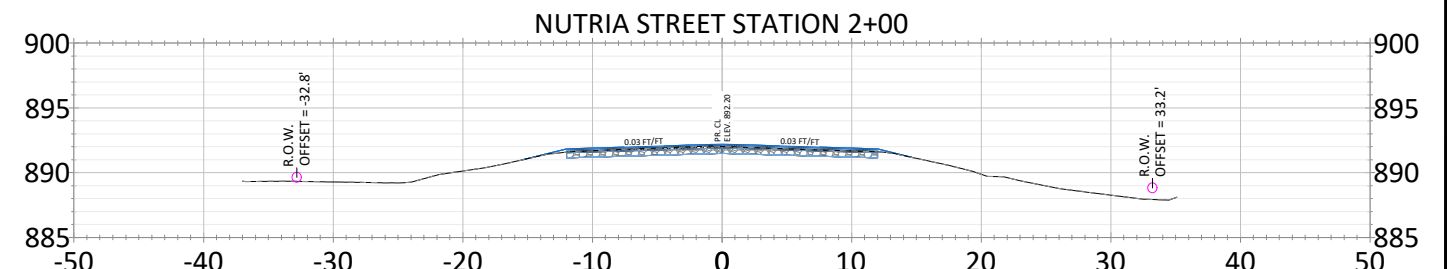
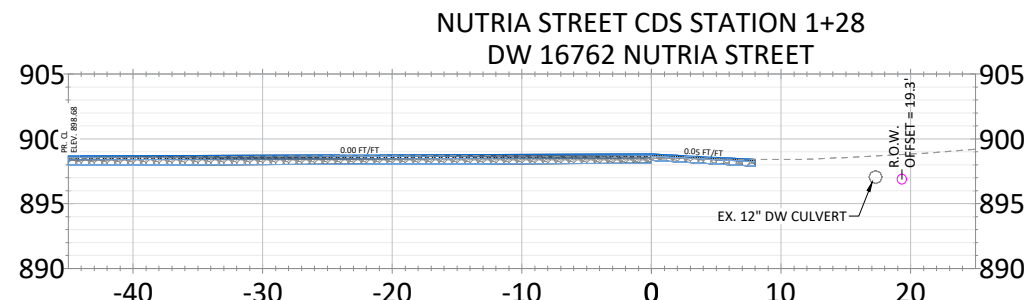
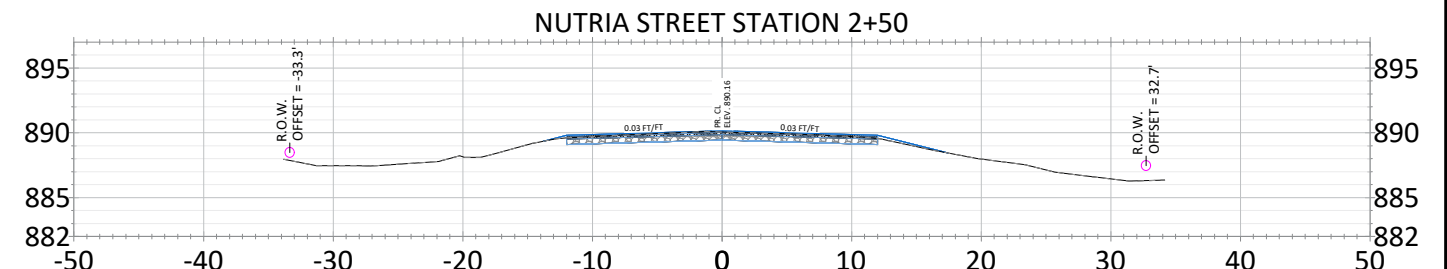
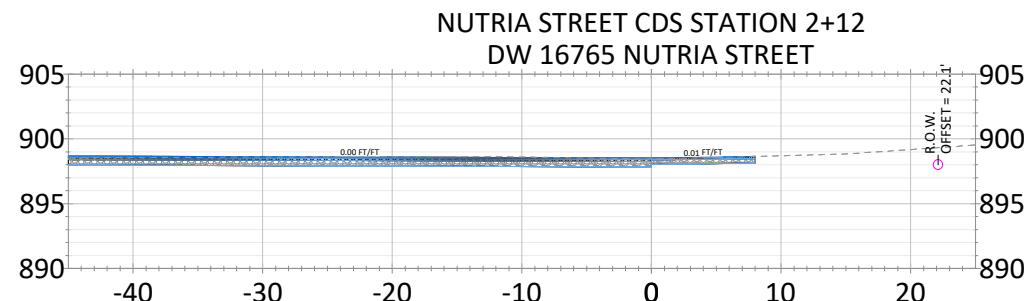
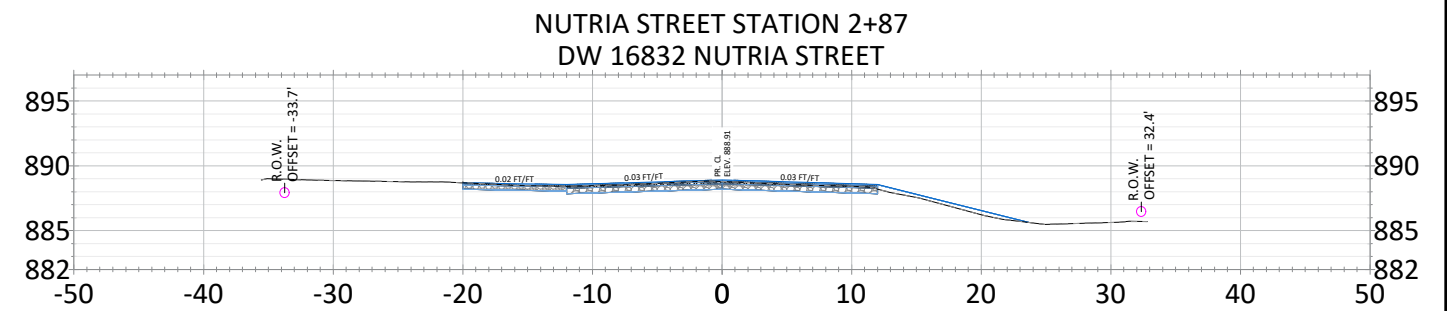
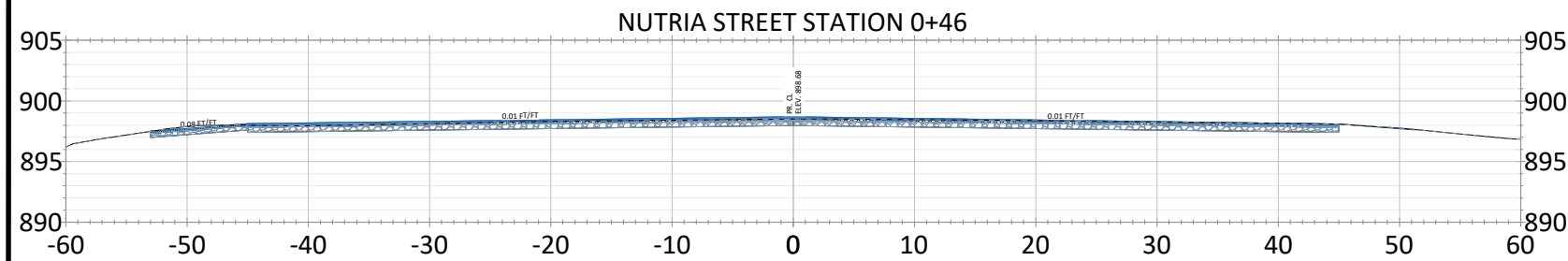
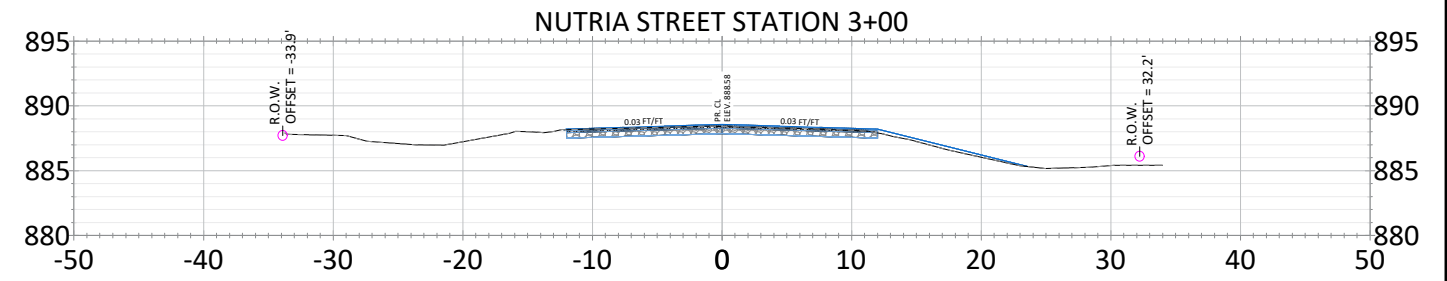
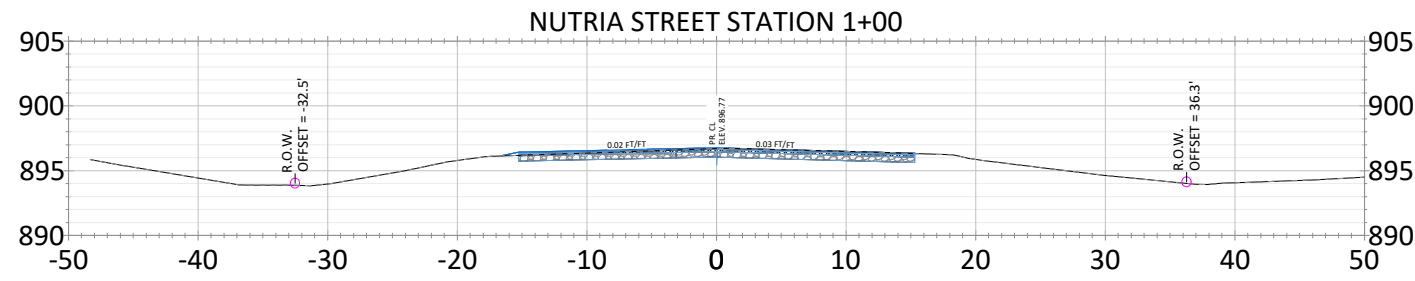
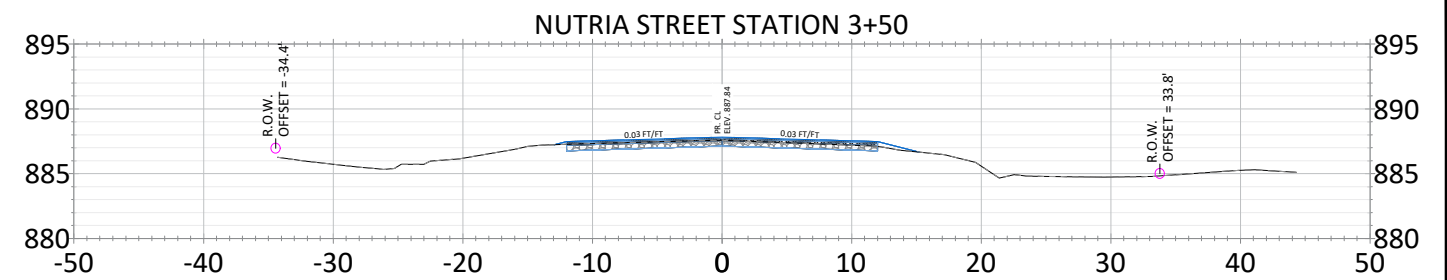
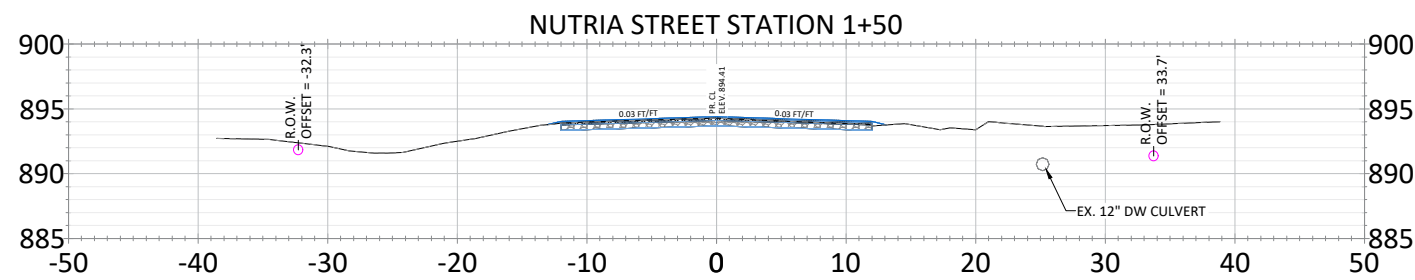
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FILE: 22-02



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS
168TH LN 13+50 TO
JACKAL ST CDS

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA



DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

JOE FERIANCEK
Date: 6/28/22 Lic. No. 57095

DESIGNED BY: JJF
DRAWN BY: JJF
CHECKED BY: JJF

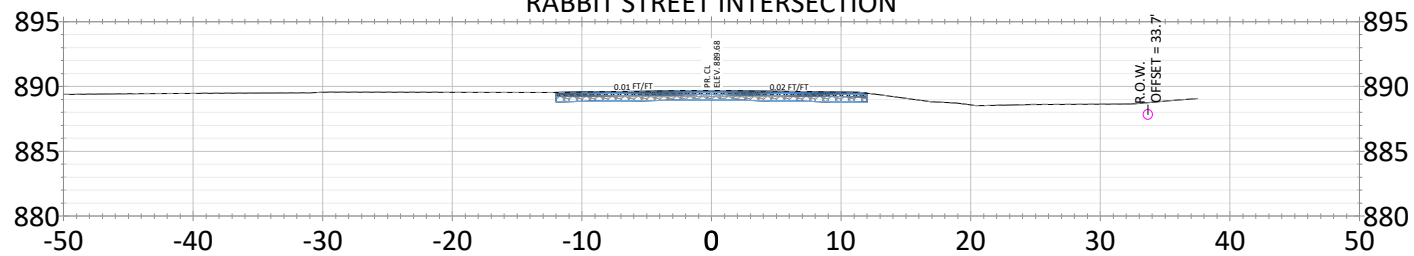
DATE: 6/28/22
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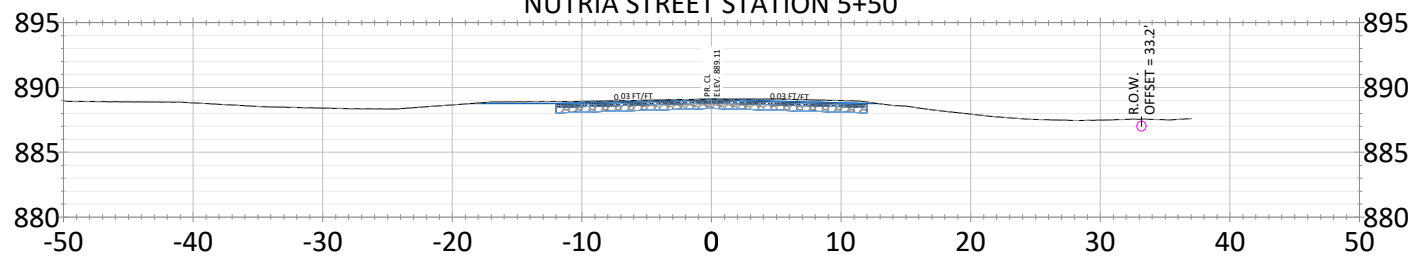
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AUTUMN HEIGHTS STREET RECONSTRUCTIONS
CITY PROJECT NO. 22-02
CITY OF RAMSEY, MINNESOTA

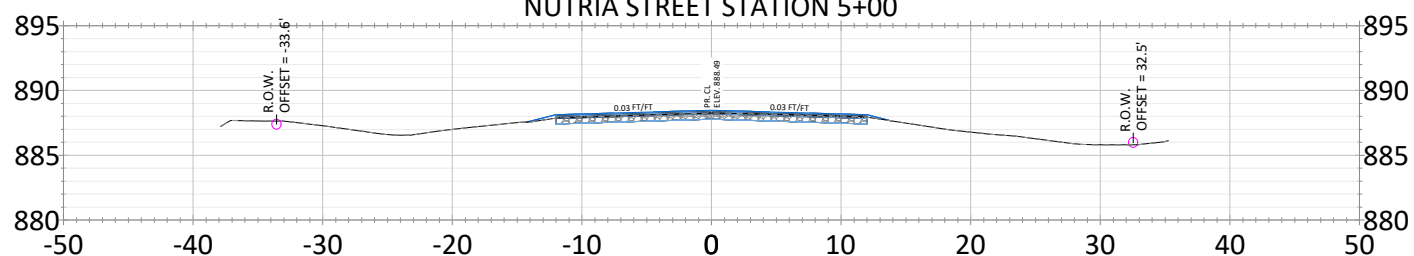
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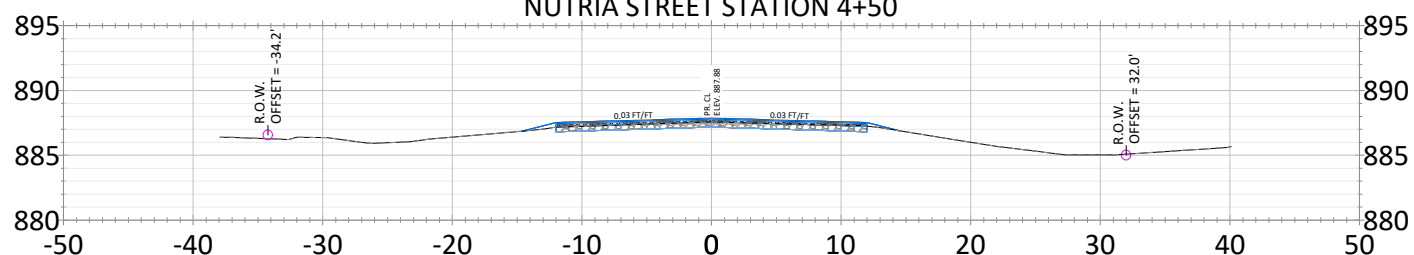
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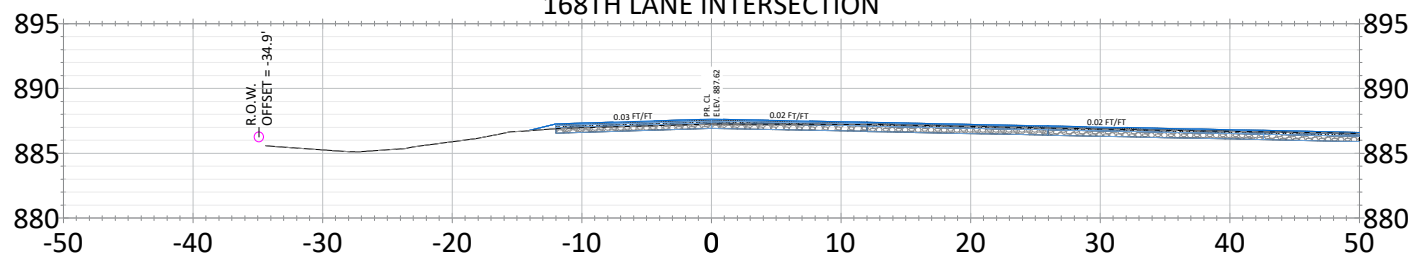
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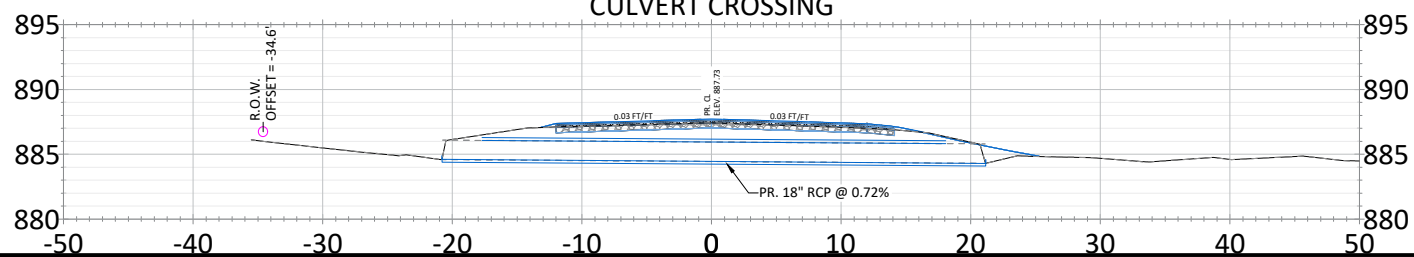
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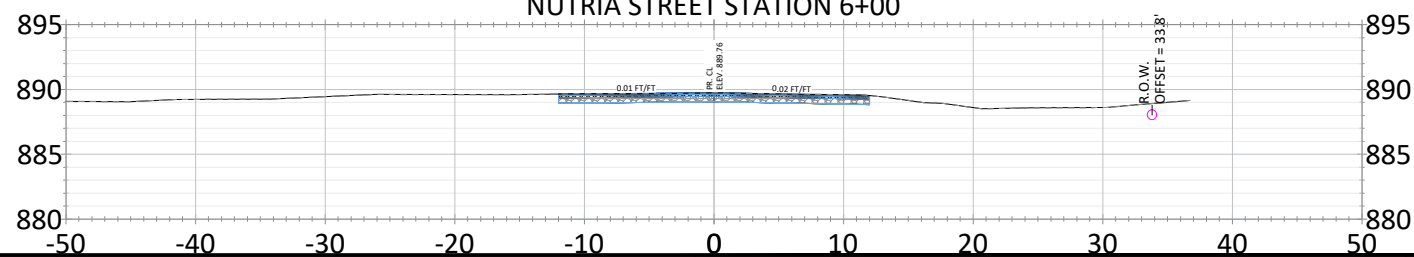
NUTRIA STREET STATION 3+98
168TH LANE INTERSECTION



NUTRIA STREET STATION 3+66
CULVERT CROSSING



NUTRIA STREET STATION 6+00



DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

JOE FERIANECK
Date: 6/28/22 Lic. No. 57095

DESIGNED BY: JJF
DRAWN BY: JJF
CHECKED BY: JJF

DATE: 6/28/22
FILE: 22-02

CITY OF RAMSEY
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RAMSEY, MN 55303
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CROSS SECTIONS
NUTRIA ST 3+66 TO 6+00

AUTUMN HEIGHTS STREET RECONSTRUCTIONS
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